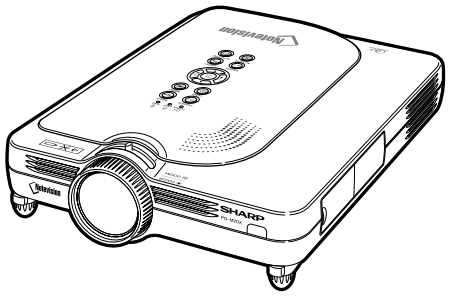
TENTATIVE

SHARP SERVICE MANUAL
SERVICE-ANLEITUNG



DIGITAL MULTIMEDIA PROJECTOR
DIGITALER MULTIMEDIA PROJEKTOR

MODEL
MODELLE **PG-M20X**

In the interests of user-safety (Required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified should be used.

Im Interesse der Benutzersicherheit (erforderliche Sicherheitsregeln in einigen Ländern) muß das Gerät in seinen Originalzustand gebracht werden. Außerdem dürfen für die spezifizierten Bauteile nur identische Teile verwendet werden.

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SHARP CORPORATION

This document has been published to be used for after sales service only.
The contents are subject to change without notice.

Specifications

Product type	Digital Multimedia Projector
Model	PG-M20X
Video system	NTSC 3.58/NTSC 4.43/PAL/PAL-M/PAL-N/PAL 60/SECAM/ DTV480I/DTV480P/DTV720P/DTV1080I
Display method	Single Chip Digital Micromirror Device™ (DMD™) by Texas Instruments
DMD panel	Panel size: 0.7" (17.8 mm), 1 chip XGA DMD No. of dots: 786,432 dots (1,024 [H] × 768 [V])
Lens	1–1.2 × zoom lens, F1.75–2.04, f = 28.0–33.5 mm
Projection lamp	High Intensity Discharge Lamp (HID Lamp), DC 210 W
Component input signal (INPUT1)	29-pin connector DVI input signal: Digital 250–1,000 mV 50 Ω Analog 0.7 Vp-p 75 Ω Y: 1.0 Vp-p, sync negative, 75 Ω terminated P_B: 0.7 Vp-p, 75 Ω terminated P_R: 0.7 Vp-p, 75 Ω terminated
Horizontal resolution	700 TV lines (DTV720P)
Computer RGB input signal (INPUT 1)	29-pin connector RGB separate/sync on green type analog input: 0–0.7 Vp-p, positive, 75 Ω terminated HORIZONTAL SYNC. SIGNAL: TTL level (positive/negative) VERTICAL SYNC. SIGNAL: Same as above
S-video input signal (INPUT 2)	4-pin Mini DIN connector Y (luminance signal): 1.0 Vp-p, sync negative, 75 Ω terminated C (chrominance signal): Burst 0.286 Vp-p, 75 Ω terminated
Video input signal (INPUT 3)	RCA connector: VIDEO, composite video, 1.0 Vp-p, sync negative, 75 Ω terminated
Pixel clock	12–230 MHz
Vertical frequency	43–100 Hz
Horizontal frequency	15–126 kHz
Audio input signal	ø3.5 mm MINIJACK: AUDIO, 0.5 Vrms, more than 47 kΩ (stereo)
Audio output	2.0 W (monaural)
Speaker system	4 cm × 3 cm
Rated voltage	AC 100–240 V
Input current	3.2 A
Rated frequency	50/60 Hz
Power consumption	290 W
Power dissipation	<1,090 BTU/hour
Operating temperature	41°F to 95°F (+5°C to +35°C)
Storage temperature	–4°F to 140°F (–20°C to +60°C)
Cabinet	Plastic
I/R carrier frequency	38 kHz
Dimensions (approx.)	8 5/8" × 3" × 11 15/16" (219 (W) × 76 (H) × 303 (D) mm) (main body only) 8 3/4" × 3 1/4" × 12 1/2" (223 (W) × 83 (H) × 318 (D) mm) (including adjustment feet and projecting parts)
Weight (approx.)	5.8 lbs. (2.6 kg)
Supplied accessories	Remote control, Two R-03 batteries, Power cord for U.S., Canada etc. (6', 1.8 m), Power cord for Europe, except U.K. (6', 1.8 m), Power cord for U.K., Hong Kong and Singapore (6', 1.8 m), Power cord for Australia, New Zealand and Oceania (6', 1.8 m), DVI to 15-pin D-sub cable (6', 1.8 m), USB cable (6', 1.8 m), Carrying case, Lens cap (attached), Lens cap strap, Terminal cover (attached), CD-ROM, Operation manual, Quick reference guides
Replacement parts	Lamp unit (Lamp/cage module) (BQC-PGM20X//1), Remote control (RRMCGA013WJSA), Two R-03 batteries ("AAA" size, UM/SUM-4, HP-16, or similar), Power cord for U.S., Canada etc. (QACCDA007WJPZ), Power cord for Europe, except U.K. (QACCV4002CEZZ), Power cord for U.K., Hong Kong and Singapore (QACCB5024CENA), Power cord for Australia, New Zealand and Oceania (QACCL3022CEZZ), DVI to 15-pin D-sub cable (QCNWGA010WJZZ), USB cable (QCNWG0001WJPZ), Carrying case (GCASN0005CESA), Lens cap (CCAPHA001WJ01), Lens cap strap (UBNDT0013CEZZ), Terminal cover (GCOVD0103CESA), CD-ROM (UDSKA0058CEN1), Operation manual (TINS-7609CEZZ), Quick reference guides

This SHARP projector uses a DMD panel. This very sophisticated panel contains 786,432 pixels. As with any high technology electronic equipment such as large screen TVs, video systems and video cameras, there are certain acceptable tolerances that the equipment must conform to.

This unit has some inactive pixels within acceptable tolerances which may result in inactive dots on the picture screen. This will not affect the picture quality or the life expectancy of the unit.

Specifications are subject to change without notice.

IMPORTANT SERVICE SAFETY NOTES (for USA)

■ **Service work should be performed only by qualified service technicians who are thoroughly familiar with all safety checks and servicing guidelines as follows:**

WARNING

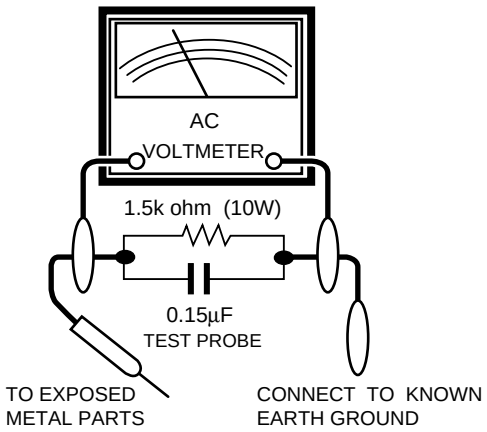
1. For continued safety, no modification of any circuit should be attempted.
2. Disconnect AC power before servicing.

BEFORE RETURNING THE PROJECTOR: (Fire & Shock Hazard)

Before returning the projector to the user, perform the following safety checks:

1. Inspect lead wires are not pinched between the chassis and other metal parts of the projector.
2. Inspect all protective devices such as non-metallic control knobs, insulating materials, cabinet backs, adjustment and compartment covers or shields, isolation resistor-capacity networks, mechanical insulators, etc.
3. To be sure that no shock hazard exists, check for current leakage in the following manner:

- Plug the AC cord directly into a 120-volt AC outlet, (Do not use an isolation transformer for this test).
- Using two clip leads, connect a 1.5k ohm, 10 watt resistor paralleled by a 0.15µF capacitor in parallel between all exposed metal cabinet parts and earth ground.
- Use an AC voltmeter with sensitivity of 5000 ohm per volt., or higher, sensitivity to measure the AC voltage drop across the resistor (See Diagram).
- All checks must be repeated with the AC plug connection reversed. (If necessary, a non-polarized adapter plug must be used only for the purpose of completing these checks.)
  Any reading of 0.3 volts RMS (this corresponds to 0.2 milliamp. AC.) or more is excessive and indicates a potential shock hazard which must be corrected before returning the unit to the owner.



SAFETY NOTICE

Many electrical and mechanical parts in Projector have special safety-related characteristics.
These characteristics are often not evident from visual inspection, nor can protection afforded by them be necessarily increased by using replacement components rated for higher voltage, wattage, etc.
Replacement parts which have these special safety characteristics are identified in this manual; electrical components having such features are identified by "⚠" and shaded areas in the Replacement Parts Lists and Schematic Diagrams. For continued protection, replacement parts must be identical to those used in the original circuit. The use of a substitute replacement parts which do not have the same safety characteristics as the factory recommended replacement parts shown in this service manual, may create shock, fire or other hazards.

WARNING: The bimetallic component has the primary conductive side exposed. Be very careful in handling this component when the power is on.

AVIS POUR LA SECURITE

De nombreuses pièces, électriques et mécaniques, dans les projecteur à présentent des caractéristiques spéciales relatives à la sécurité, qui ne sont souvent pas évidentes à vue.
Le degré de protection ne peut pas être nécessairement augmentée en utilisant des pièces de remplacement étalonnées pour haute tension, puissance, etc.
Les pièces de remplacement qui présentent ces caractéristiques sont identifiées dans ce manuel; les pièces électriques qui présentent ces particularités sont identifiées par la marque "⚠" et hachurées dans la liste des pièces de remplacement et les diagrammes schématiques. Pour assurer la protection, ces pièces doivent être identiques à celles utilisées dans le circuit d'origine. L'utilisation de pièces qui n'ont pas les mêmes caractéristiques que les pièces recommandées par l'usine, indiquées dans ce manuel, peut provoquer des électrocutions, incendies ou autres accidents.

AVERTISSEMENT: La composante bimétallique dispose du conducteur primaire dénudé. Faire attention lors de la manipulation de cette composante sous tension.

NOTE TO SERVICE PERSONNEL

UV-RADIATION PRECAUTION

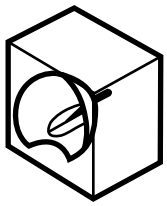
The light source, metal halide lamp, in the projector emits small amounts of UV-Radiation.

AVOID DIRECT EYE AND SKIN EXPOSURE.

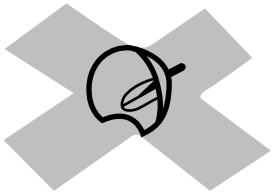
To ensure safety please adhere to the following:

1. Be sure to wear sun-glasses when servicing the projector with the lamp turned “on” and the top enclosure removed.

2. Do not operate the lamp outside of the lamp housing.



3. Do not operate for more than 2 hours with the enclosure removed.



UV-Radiation and Medium Pressure Lamp Precautions

1. Be sure to disconnect the AC plug when replacing the lamp.
2. Allow one hour for the unit to cool down before servicing.
3. Replace only with same type lamp. Type BQC-PGM20X//1 rated 85V/210W.
4. The lamp emits small amounts of UV-Radiation, avoid direct-eye contact.
5. The medium pressure lamp involves a risk of explosion. Be sure to follow installation instructions described below and handle the lamp with care.

NOTE POUR LE PERSONNEL D’ENTRETIEN

PRECAUTION POUR LES RADIATIONS UV

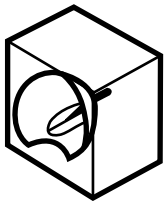
La source de lumière, la lampe métal halide, dans le projecteur émet de petites quantités de radiation UV.

EVITEZ TOUTE EXPOSITION DIRECTE DES YEUX ET DE LA PEAU.

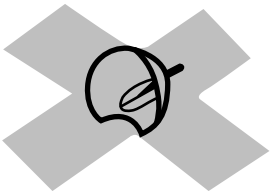
Pour votre sécurité, nous vous prions de respecter les points suivants:

1. Toujours porter des lunettes de soleil lors d’un entretien du projecteur avec la lampe allumée et le haut du coffret retiré.

2. Ne pas faire fonctionner la lampe à l’extérieur du boîtier de lampe.



3. Ne pas faire fonctionner plus de 2 heures avec le coffret retiré.



Précautions pour les radiations UV et la lampe moyenne pression

1. Toujours débrancher la fiche AC lors du remplacement de la lampe.
2. Laisser l’unité refroidir pendant une heure avant de procéder à l’entretien.
3. Ne remplacer qu’avec une lampe du même type. Type BQC-PGM20X//1 caractéristique 85V/210W.
4. La lampe émet de petites quantités de radiation UV- éviter tout contact direct avec les yeux.
5. La lampe moyenne pression implique un risque d’explosion. Toujours suivre les instructions d’installation décrites ci-dessous et manipuler la lampe avec soin.

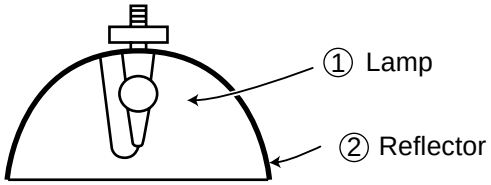
UV-RADIATION PRECAUTION (Continued)

■ Lamp Replacement

Note:

Since the lamp reaches a very high temperature during units operation replacement of the lamp should be done at least one hour after the power has been turned off. (to allow the lamp to cool off.) Installing the new lamp, make sure not to touch the lamp (bulb) replace the lamp by holding its reflector ②.

[Use original replacement only.]



DANGER ! — Never turn the power on without the lamp to avoid electric-shock or damage of the devices since the stabilizer generates high voltages at its start.

Since small amounts of UV-Radiation are emitted from an opening between the duct cover and the lamp housing, it is recommended to place the LENS CAP on the opening during servicing to avoid eye and skin exposure (Fig. 1).

Note: Please obtain a lens cap before servicing a models PG-M20X that is received without one.

Figure 1.

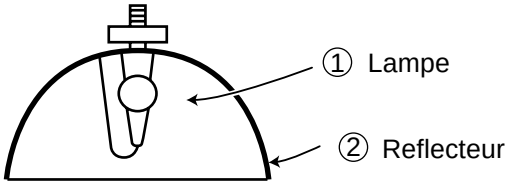
PRECAUTION POUR LES RADIATIONS UV (Suite)

■ Remplacement de la lampe

Remarque:

Comme la lampe devient très chaude pendant le fonctionnement de l'unité, son remplacement ne doit être effectué au moins une heure après avoir coupé l'alimentation (pour permettre à la lampe de refroidir). En installant la nouvelle lampe, s'assurer de ne pas toucher la lampe (ampoule). Remplacer la lampe en tenant son réflecteur ②.

[N'utiliser qu'un remplacement d'origine.]



DANGER ! — Ne jamais mettre sous tension sans la lampe pour éviter un choc électrique ou des dommages des appareils car le stabilisateur génère de hautes tensions à sa mise en route.

Comme de petites quantités de radiation UV sont émises par une ouverture entre le couvercle du conduit et le botier de la lampe,il est recommandé de placer le CAPUCHON D'OPTIQUE sur l'ouverture pendant l'entretien pour éviter une exposition des yeux et la peau (Fig. 1).

Remarque: Priére de se procurer un capuchon d'optique acant d'entretien un modéle PG-M20X qui est livré sans.

Figure 1.

WARNING: High brightness light source, do not stare into the beam of light, or view directly. Be especially careful that children do not stare directly in to the beam of light.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS UNIT TO MOISTURE OR WET LOCATIONS.

CAUTION

RISK OF ELECTRIC SHOCK.
DO NOT REMOVE SCREWS
EXCEPT SPECIFIED USER
SERVICE SCREWS

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE CABINET.
NO USER-SERVICEABLE PARTS EXCEPT LAMP UNIT.
REFER SERVICING TO QUALIFIED SERVICE
PERSONNEL.

The lighting flash with arrowhead within a triangle is intended to tell the user that parts inside the product are risk of electric shock to persons.

The exclamation point within a triangle is intended to tell the user that important operating and servicing instructions are in the manual with the projector.

AVERTISSEMENT: Source lumineuse de grande intensité. Ne pas fixer le faisceau lumineux ou le regarder directement. Veiller particulièrement à éviter que les enfants ne fixent directement le faisceau lumineux.

AVERTISSEMENT: AFIN D'EVITER TOUT RISQUE D'INCENDIE OU D'ELECTROCUTION, NE PAS PLACER CET APPAREIL DANS UN ENDROIT HUMIDE OU MOUILLE.

ATTENTION

RISQUE
D'ELECTROCUTION NE
PASRETIRER LES VIS, A
L'EXCEPTION DES VIS DE
REPARATION UTILISATEUR
SPECIFIEES

ATTENTION: POUR EVITER TOUT RISQUE
D'ELECTROCUTION, NE PAS RETIRER LE CAPOT.
AUCUNE DES PIECES INTERIEURES N'EST REPARABLE
PAR L'UTILISATEUR, A L'EXCEPTION DE L'UNITE DE
LAMPE. POUR TOUTE REPARATION, S'ADRESSER A UN
TECHNICIEN D'ENTRETIEN QUALIFIE.

L'éclair terminé d'une flèche à l'intérieur d'un triangle indique à l'utilisateur que les pi'eces se trouvant dans l'appareil sont susceptibles de provoquer une décharge électrique.

Le point d'exclamation à l'intérieur d'un triangle indique à l'utilisateur que les instructions de fonctionnement et d'entretien sont détaillées dans les documents fournis avec le projecteur.

Precautions for using lead-free solder

1 Employing lead-free solder

"Main PWB" of this model employs lead-free solder. The LF symbol indicates lead-free solder, and is attached on the PWBs and service manuals. The alphabetical character following LF shows the type of lead-free solder.

Example:

Indicates lead-free solder of tin, silver and copper.

2 Using lead-free wire solder

When fixing the PWB soldered with the lead-free solder, apply lead-free wire solder. Repairing with conventional lead wire solder may cause damage or accident due to cracks.

As the melting point of lead-free solder (Sn-Ag-Cu) is higher than the lead wire solder by 40ºC, we recommend you to use a dedicated soldering bit, if you are not familiar with how to obtain lead-free wire solder or soldening bit, contact our service station or service ranch in your area.

3 Soldering

As the melting point of lead-free solder (Sn-Ag-Cu) is about 220ºC which is higher than the conventional lead solder by 40ºC, and as it has poor solder wettabillty, you may be apt to keep the soldering bit in contact with the PWB for extended period of time. However, Since the land may be peeled off or the maximum heat-resistance temperature of parts may be excoeded, remove the bit from the PWB as soon as you conurm the steady soldering condition.

Lead-free solder contains more tin, and the end of the soldering bit may be easily corroded. Make sure to tum on and off the power of the bit as required.

if a different type of solder stays on the tip of the soldering bit, it is alloyed with lead-free solder. Clean the bit after every use of it.

When the tip of the soldering bit is blackened during use, file it with steel wool or fine sandpaper.

Becareful when replacing parts with polarity indication on the PWB silk.

Lead-free wire solder for servicing

Part No.	★	Description	Code
ZHNDAi123250E	J	ϕ0.3mm 250g(1roll)	BL
ZHNDAi126500E	J	ϕ0.6mm 500g(1roll)	BK
ZHNDAi12801KE	J	ϕ1.0mm 1kg(1roll)	BM

Location of Controls

Projector (Front and Top View)

LAMP REPLACEMENT indicator
Illuminates in green normally. Replace the lamp when the indicator illuminates in red.

POWER indicator
Illuminates in red, when the projector is in standby. When the power is turned on, this indicator will illuminate in green.

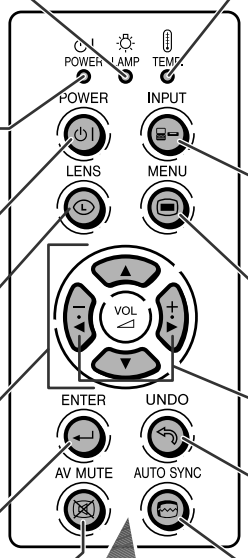
POWER button
Turns the power on or off.

LENS button
For adjusting Keystone or Digital Shift setting.

Adjustment buttons (▽ △ ◁ ▷)
For selecting menu items.

ENTER button
For setting items selected or adjusted on the menu.

AV MUTE button
For temporarily turning off the sound and picture.



TEMPERATURE WARNING indicator
Illuminates in green normally. When the internal temperature rises, this indicator will illuminate in red.

INPUT button
For switching input mode 1, 2 or 3.

MENU button
For displaying adjustment and setting screens.

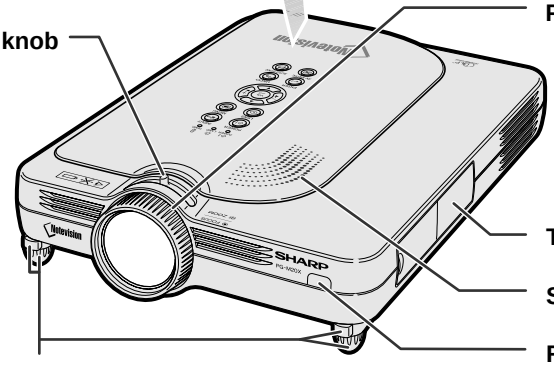
VOLUME buttons
For adjusting the speaker sound level.

UNDO button
For undoing an operation or returning to the default settings.

AUTO SYNC button
For automatically adjusting images when connected to a computer.

Zoom knob

Focus ring



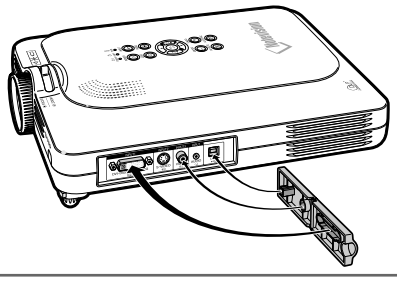
Terminal cover

Speaker

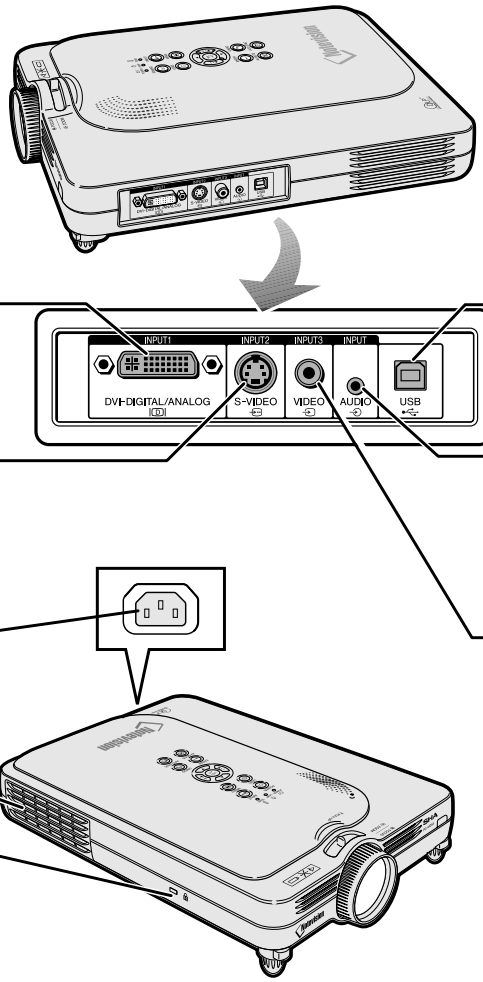
Remote control sensor

Foot releases/Adjustment feet
For adjusting the projector's height.

Attaching the terminal cover
Attach the terminal cover by placing it on the side panel of the projector and pressing it into place, as shown in the illustration.



Projector (Side View)



INPUT 1 terminal
Port for DVI digital, computer RGB, and COMPONENT signals.

INPUT 2 terminal
Terminal for connecting video equipment with an S-VIDEO terminal.

USB terminal
For connecting a computer using a USB cable.

INPUT AUDIO terminal
Shared audio terminal for INPUT 1, INPUT 2, and INPUT 3.

INPUT 3 terminal
For connecting video equipment.

AC socket

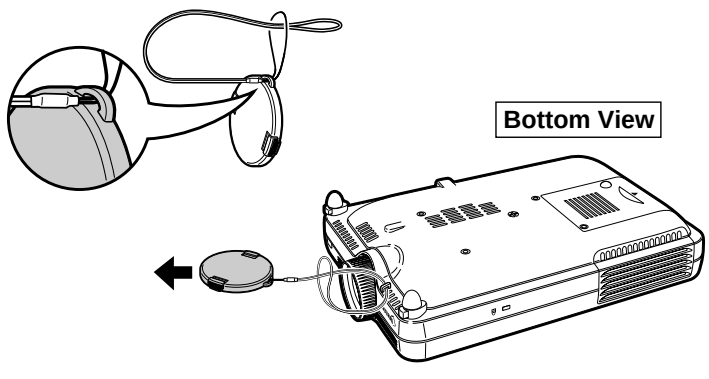
Exhaust vent

Kensington Security Standard connector

Using the Kensington Lock

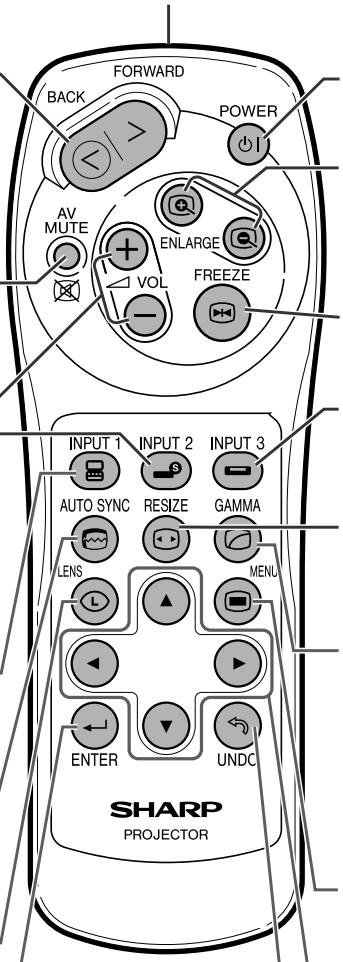
- This projector has a Kensington Security Standard connector for use with a Kensington MicroSaver Security System. Refer to the information that came with the system for instructions on how to use it to secure the projector.

Attaching the lens cap
After putting the lens cap strap on the lens cap, pass the other end of the strap through the hole under the projector, next to the lens, as shown in the illustration.



Remote Control

Remote control signal transmitter



FORWARD/BACK button
Moves forward or backwards when connected to a computer using a USB cable. Same as the [Page Down] and [Page Up] keys on a computer keyboard.

AV MUTE button
For temporarily turning off the sound and picture.

VOLUME buttons
For adjusting the speaker sound level.

INPUT 2 button
For switching the input mode to INPUT 2.

INPUT 1 button
For switching the input mode to INPUT 1.

AUTO SYNC button
For automatically adjusting images when connected to a computer.

LENS button
For adjusting Keystone or Digital Shift setting.

ENTER button
For setting items selected or adjusted on the menu.

POWER button
Turns the power on or off.

ENLARGE (Enlarge/Reduce) buttons
For enlarging or reducing part of the image.

FREEZE button
For freezing images.

INPUT 3 button
For switching the input mode to INPUT 3.

RESIZE button
For switching the screen size (NORMAL, BORDER, etc).

GAMMA button
For correcting the brightness of an image, when the images displayed are hard to see because of the brightness of the room. Four gamma modes are available to choose from.

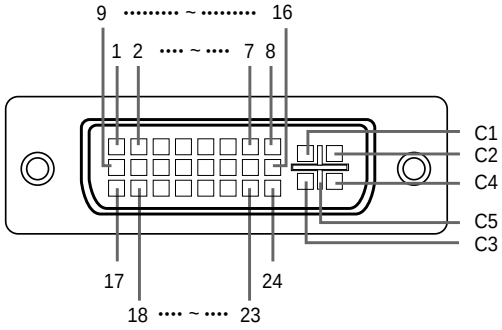
MENU button
For displaying adjustment and setting screens.

Adjustment buttons (▼ ▲ ◄ ►)
For selecting menu items.

UNDO button
For undoing an operation or returning to the default settings.

Connection Pin Assignments

DVI Digital / Analog INPUT 1 port : 29 pin connector



• DVI Digital INPUT

Pin No.	Signal	Pin No.	Signal
1	T.M.D.S data 2–	16	Hot plug detection
2	T.M.D.S data 2+	17	T.M.D.S data 0–
3	T.M.D.S data 2 shield	18	T.M.D.S data 0+
4	Not connected	19	T.M.D.S data 0 shield
5	Not connected	20	Not connected
6	DDC clock	21	Not connected
7	DDC data	22	T.M.D.S clock shield
8	Not connected	23	T.M.D.S clock+
9	T.M.D.S data 1–	24	T.M.D.S clock–
10	T.M.D.S data 1+	C1	Not connected
11	T.M.D.S data 1 shield	C2	Not connected
12	Not connected	C3	Not connected
13	Not connected	C4	Not connected
14	+5V current	C5	Ground
15	Ground		

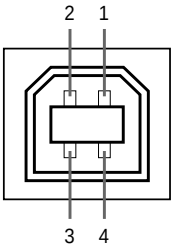
• DVI Analog RGB Input

Pin No.	Signal	Pin No.	Signal
1	Not connected	16	Hot plug detection
2	Not connected	17	Not connected
3	Not connected	18	Not connected
4	Not connected	19	Not connected
5	Not connected	20	Not connected
6	DDC clock	21	Not connected
7	DDC data	22	Not connected
8	Vertical sync	23	Not connected
9	Not connected	24	Not connected
10	Not connected	C1	Analog input Red
11	Not connected	C2	Analog input Green
12	Not connected	C3	Analog input Blue
13	Not connected	C4	Horizontal sync
14	+5V current	C5	Ground
15	Ground		

• DVI Analog Component Input

Pin No.	Signal	Pin No.	Signal
1	Not connected	16	Not connected
2	Not connected	17	Not connected
3	Not connected	18	Not connected
4	Not connected	19	Not connected
5	Not connected	20	Not connected
6	Not connected	21	Not connected
7	Not connected	22	Not connected
8	Not connected	23	Not connected
9	Not connected	24	Not connected
10	Not connected	C1	Analog input Pr/Cr
11	Not connected	C2	Analog input Y
12	Not connected	C3	Analog input Pb/Cb
13	Not connected	C4	Not connected
14	Not connected	C5	Ground
15	Ground		

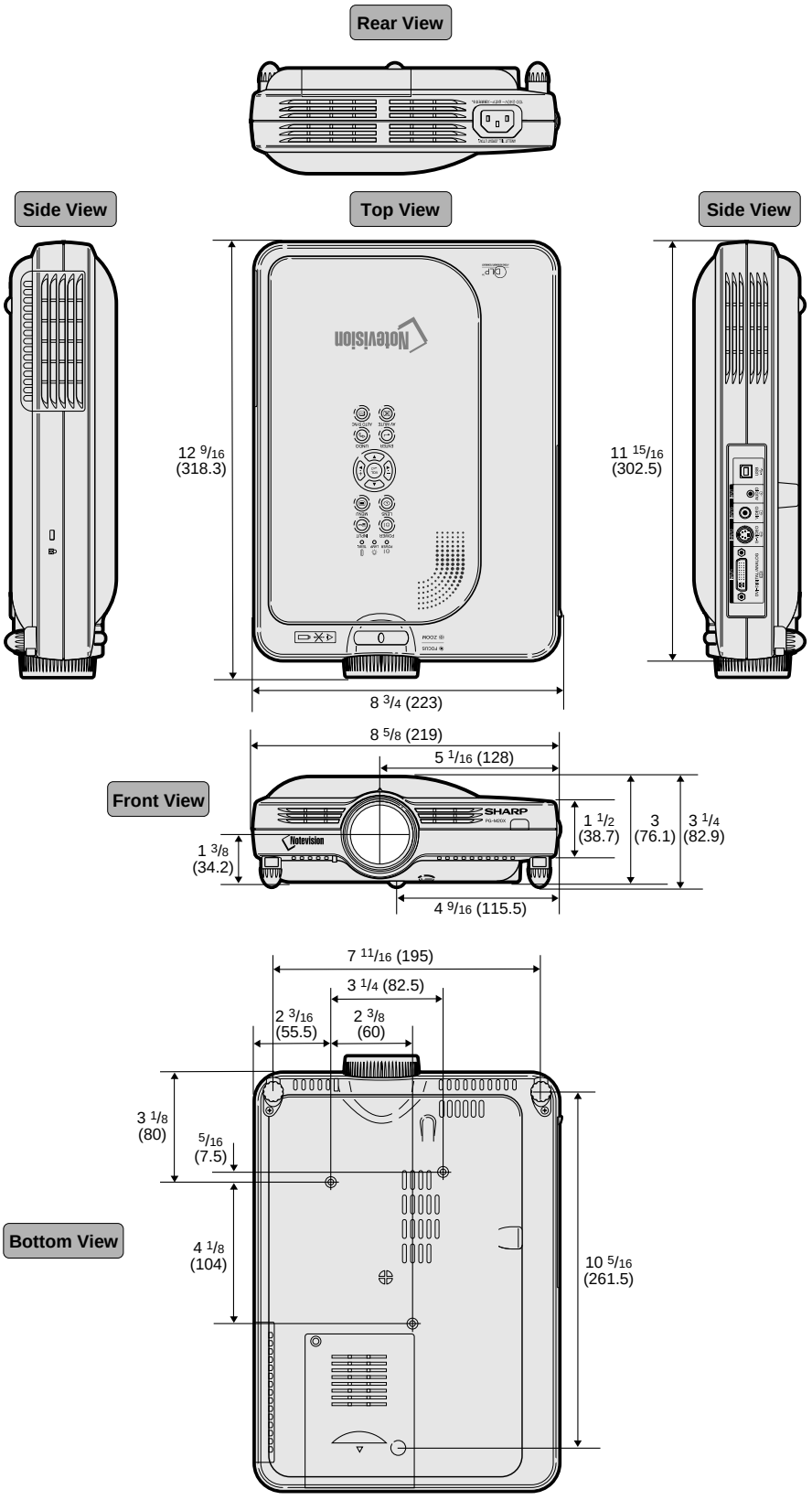
4-pin USB connector



• USB connector: 4 pin B-type USB connector

Pin no.	Signal	Name
1	VCC	USB current
2	USB–	USB data–
3	USB+	USB data+
4	SG	Signal Ground

Dimensions



Units: inches (mm)

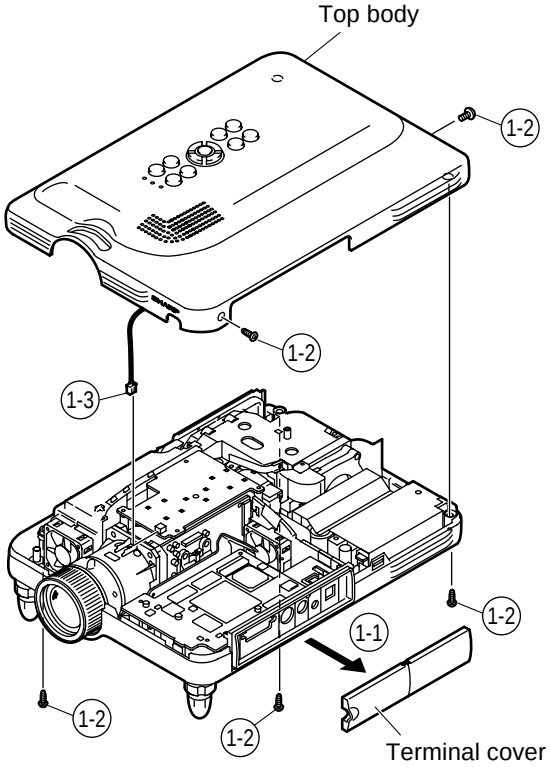
REMOVING OF MAJOR PARTS

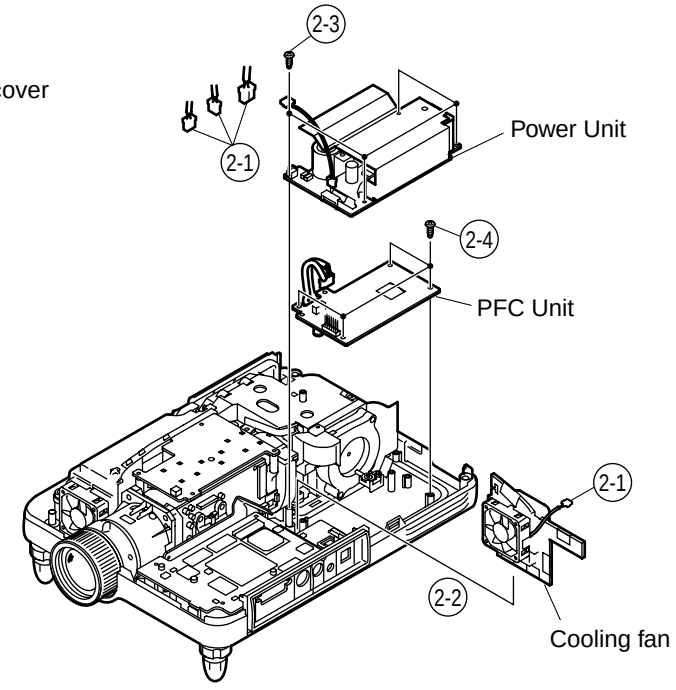
1. Removal of the top body

1-1. Detach the terminal block cover.
1-2. Remove the five lock screws from the top body.
1-3. Slightly lift the front of the top body and disconnect the speaker connector.

2. Removal of the power PWB unit and cooling fan

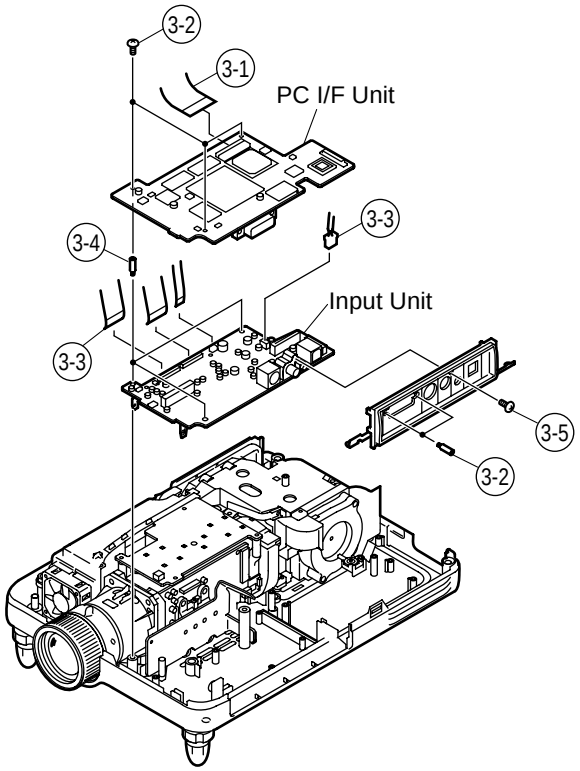
2-1. Disconnect the specified connectors.
2-2. Detach the cooling fan.
2-3. Remove the four lock screws from the power unit.
2-4. Remove the three lock screws from the PFC PWB.





3. Removal of the PC I/F PWB and input PWB

3-1. Disconnect the specified connectors.
3-2. Remove the three lock screws and two hex screws from the PC I/F PWB.
3-3. Disconnect the connector from the input PWB.
3-4. Remove the three lock screws from the input PWB.
3-5. Remove the lock screw from the terminal block cover.

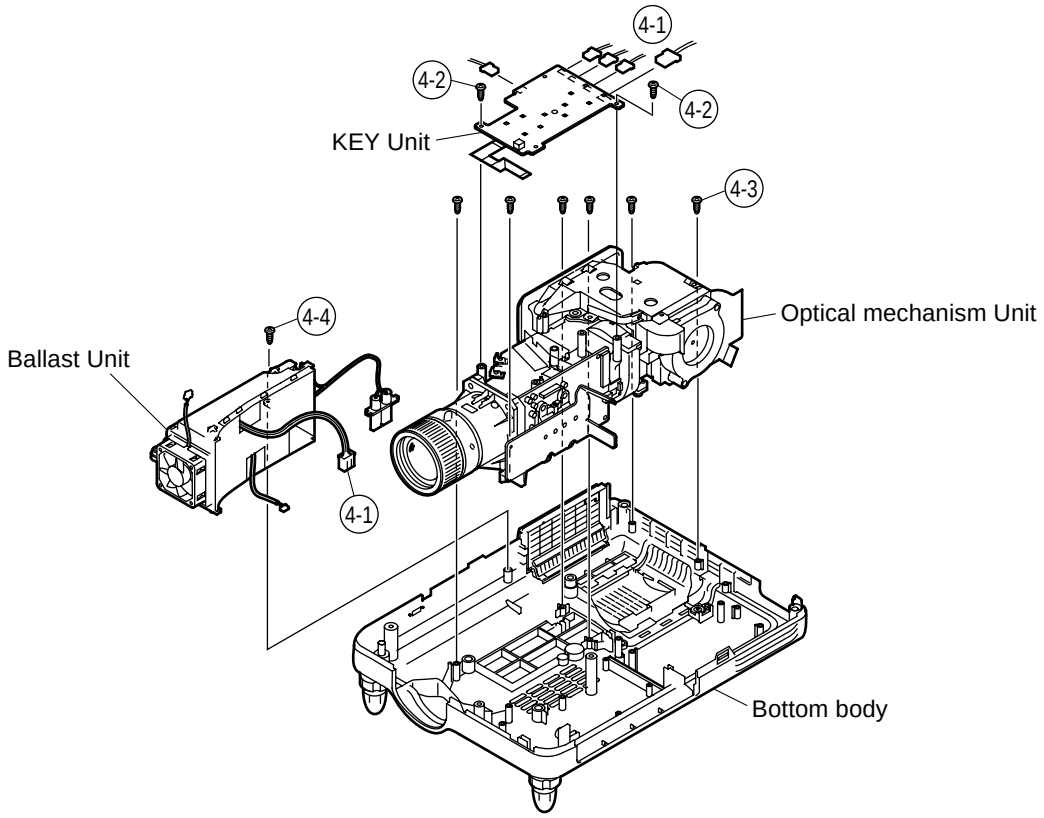


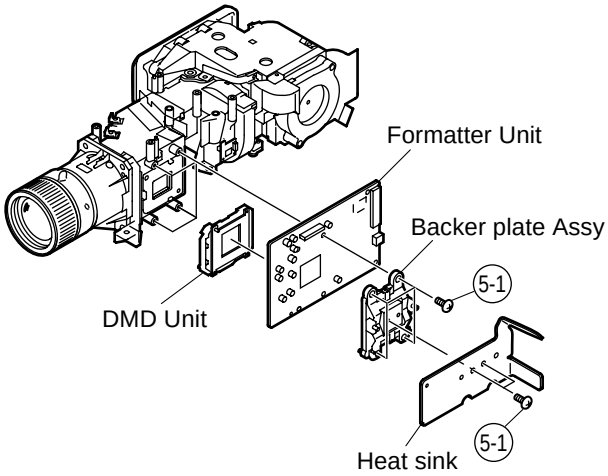
4. Removal of the operation PWB, optical unit and ballast unit

4-1. Disconnect the specified connectors from each PWB.
4-2. Remove the two lock screws from the operation PWB.
4-3. Remove the six lock screws from the optical unit.
4-4. Remove the lock screw from the ballast unit.

5. Removal of the formatter PWB

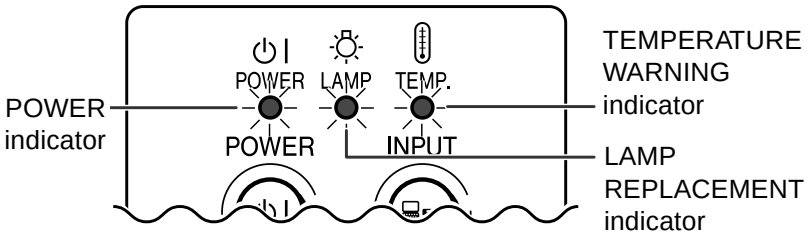
5-1. Remove the two lock screws from the heat sink.
5-2. Remove the four lock screws from the backer plate assembly, and detach the formatter PWB.





RESETTING THE TOTAL LAMP TIMER

- **The warning lights on the projector indicate problems inside the projector.**
- **If a problem occurs, either the TEMPERATURE WARNING indicator or the LAMP REPLACEMENT indicator will illuminate red, and the power will turn off. After the power has been turned off, follow the procedures given below.**



About the TEMPERATURE WARNING indicator

If the temperature inside the projector increases, due to blockage of the air vents, or the setting location, "TEMP." will blink in the lower left corner of the picture. If the temperature keeps on rising, the lamp will turn off and the TEMPERATURE WARNING indicator will blink, the cooling fan will run for further 90 seconds, then the power will be shut off. After "TEMP." appears, be sure to perform the following measures.

About the LAMP REPLACEMENT indicator

- When the lamp exceeds 1,900 cumulative hours of use, "LAMP" will be displayed on the screen in yellow. When the cumulative hours of use reach 2,000, "LAMP" will change to red, the lamp will automatically turn off and then the projector as well. At this time, the LAMP REPLACEMENT indicator will illuminate in red.
- If you try to turn on the projector a fourth time without replacing the lamp, the projector will not turn on.

Maintenance indicator			Condition	Problem	Possible Solution
TEMPERATURE WARNING indicator	Normal	Abnormal	The internal temperature is abnormally high.	• Blocked air intake	• Relocate the projector to an area with proper ventilation.
	Off	Red on/ Power off		• Cooling fan breakdown • Internal circuit failure • Clogged air intake	• Take the projector to your nearest Sharp Authorized Projector Dealer or Service Center for repair.
LAMP REPLACEMENT indicator	Green on (Green blinks when the lamp is active.)	Red blinks	Time to change the lamp	• Lamp usage time exceeded 1,900 hours	• Take the projector to your nearest Sharp Authorized Projector Dealer or Service Center for repair or lamp replacement. • Please exercise care when replacing the lamp.
		Red on/ Power off	The lamp does not illuminate.	• Burnt-out lamp • Lamp circuit failure	

Info

- If the LAMP REPLACEMENT indicator illuminates, and the power turns off, follow the above possible solutions and then wait until the projector has cooled down completely before plugging in the power cord and turning the power back on. (At least 5 minutes.)
- If the power is turned off and then turned on again, as during a brief test, the LAMP REPLACEMENT indicator may be triggered, preventing the power from going on. Should this occur, take the power cord out of the wall outlet and plug it back in again.
- If you want to clean the air vents during projector operation, be sure to first press POWER and after the power has turned off and the cooling fan has stopped, then clean the vents.
- Do not unplug the power cord after the power has been turned off and while the cooling fan is running. The cooling fan runs for about 90 seconds.

Lamp

- **It is recommended that the lamp (sold separately) be replaced after approximately 1,900 cumulative hours of use or when you notice a significant deterioration of the picture and color quality. The lamp usage time can be checked with the on-screen display. See page 58.**
- **For lamp replacement, please consult your nearest Sharp Authorized Projector Dealer or Service Center.**

IMPORTANT NOTE TO U.S. CUSTOMERS:
The lamp included with this projector is backed by a 90-day parts and labor limited warranty. All service of this projector under warranty, including lamp replacement, must be obtained through a Sharp Authorized Projector Dealer or Service Center. For the name of the nearest Sharp Authorized Projector Dealer or Service Center, please call toll-free: 1-888-GO-SHARP (1-888-467-4277). U.S.A. ONLY

Caution Concerning the Lamp

- **This projector utilizes a pressurized mercury lamp. A loud sound may indicate lamp failure. Lamp failure can be attributed to numerous sources such as: excessive shock, improper cooling, surface scratches or deterioration of the lamp due to a lapse of usage time. The period of time up to failure largely varies depending on the individual lamp and/or the condition and the frequency of use. It is important to note that failure can often result in the bulb cracking.**
- **When the LAMP REPLACEMENT indicator and on-screen display icon are illuminated or flash, it is recommended that the lamp be replaced with a new one immediately, even if the lamp appears to be operating normally.**
- **Should the lamp break, the glass particles may spread inside the lamp cage or gas contained in the lamp may be vented into the room from the exhaust vent. Because the gas in this lamp includes mercury, ventilate the room well if the lamp breaks and avoid all exposure to the released gas. In case of exposure to the gas, consult with a doctor as soon as possible.**
- **Should the lamp break, there is also a possibility that glass particles may spread inside of the projector. In such a case, it is recommended you contact your nearest Sharp Authorized Projector Dealer or Service Center to remove the damaged lamp and assure safe operation.**

Replacing the Lamp

Caution

- Do not remove the lamp unit immediately after operation of the projector. The lamp will be hot and touching it can lead to burn or injury.
- Wait at least one hour after the power cord is disconnected to allow the surface of the lamp unit to fully cool before removing the lamp unit.

- **If the new lamp does not light after replacement, take your projector to the nearest Sharp Authorized Projector Dealer or Service Center for repair. Purchase a replacement lamp unit of type BQC-PGM20X//1 from your nearest Sharp Authorized Projector Dealer or Service Center. Then carefully change the lamp by following the instructions described in this section. If you wish, you may have the lamp replaced at your nearest Sharp Authorized Projector Dealer or Service Center.**

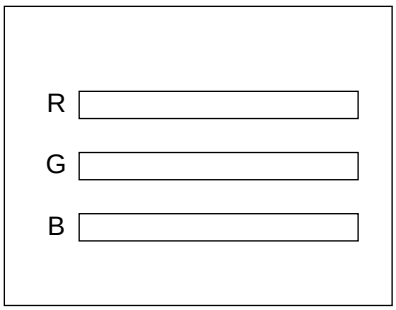
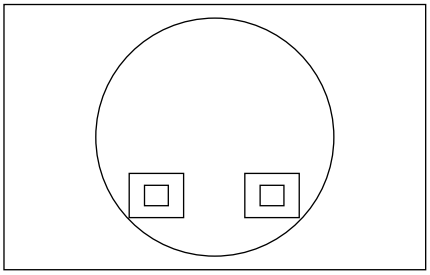
How to Release the System Lock

Turn on the power. If the system lock is applied, the system-resetting screen appears. Press the following keys in this order.

MENU → ENTER → ENTER → MENU → UNDO → UNDO → MENU

After pressing the MENU key first, press the remaining six keys within 10 seconds.

ELECTRICAL ADJUSTMENT

No.	Adjustment Items	Adjustment Conditions	Adjustment Procedures
1	Initialization of EEPROM	1. Turn on the power (the lamp lights up) and warm up the system for 15 minutes.	1. Carry out the following setting. Press SW2001 to enter the process mode, and execute S2 on SSS menu.
2	Adjustment of CW index	1. Signal input: 64-step color bar 2. Select the following group and subject. Group: DLP Subject: Select CW-INDEX.	1. Feed the signal to INPUT 1. 2. Select subject and make adjustment so that the lamp gradation patterns of R, G and B should be smooth without noise. 
3	Adjustment of RGB gradation reproduction	1. Feed the SMPTE pattern signal. 2. Select the following group and subject. Group: DLP Subject: G1-GAIN	1. Confirm that 100% and 95% white gradation, and 0% and 5% black gradation are discernible. 2. If the white gradation looks differently, do fine adjustment by G1-GAIN. 
4	Adjustment of video brightness/ contrast	1. Feed the NTSC100% window patter signal. (Burst signal) 2. Select the following group and subject. Group: VIDEO Subject: AUTO	1. After signal input, select AUTO using the set's switch or the remote controller's button for automatic adjustment.
5	Adjustment of video tint	1. Feed the split color bar signal. 2. Select the following group and subject. Group: VIDEO Subject: TINT	1. Confirm the fixed value. Fixed value: 128

No.	Adjustment Items	Adjustment Conditions	Adjustment Procedures
6	Adjustment of NTSC color saturation	1. Feed the internal 8ch (split color bar) signal. 2. Select the following group and subject. Group: VIDEO Subject: N-COLOR	1. Confirm the fixed value. Fixed value: 59
7	Adjustment of PAL color saturation	1. Feed the PAL color bar signal. 2. Select the following group and subject. Group: VIDEO Subject: P-COLOR	1. Confirm the fixed value. Fixed value: 59
8	Adjustment of SECAM color saturation	1. Feed the SECAM color bar signal. 2. Select the following group and subject. Group: VIDEO Subject: S-COLOR	1. Confirm the fixed value. Fixed value: 59
9	Adjustment of COMPO G brightness	1. Input signal: 0% gray pattern signal (480I) 2. Select the following group and subject. Group: COMPO Subject: G-BRIGHT	1. Feed the signal to INPUT 1. Make adjustment so that some bits should be missing in the picture.
10	Adjustment of COMP CR-Offset	1. Feed the color difference signal (480I): Y 0% brightness, Cb and Cr 0% white patterns. Group: COMPO Subject: AUTO	1. After signal input, select AUTO using the set's switch or the remote controller's button for automatic adjustment.
11	Automatic Adjustment of RGB white balance	1. Feed the 50% gray pattern signal (XGA, 60 Hz). 2. Select the following group and subject. Group: DLP Subjects: R1-GAIN (Red) B1-GAIN (Blue)	1. Adjust R-1 GAIN and B1-GAIN so that x-value should be 266±3 and y-value 320±3.
12	Automatic Adjustment of SRGB white balance	1. Feed the 50% gray pattern signal (XGA, 60 Hz). 2. Select the following group and subject. Group: DLP Subjects: S-R1-GAIN (Red) S-G1-GAIN (Green) S-B1-GAIN (Blue)	1. Set the value of S-R1-GAIN to 34. 2. Adjust S-G1-GAIN and S-B1-GAIN so that x-value should be 310±3 and y-value 335±3.

No.	Adjustment Items	Adjustment Conditions	Adjustment Procedures
13	Automatic adjustment of video white balance	1. Feed the 50% gray pattern signal (NTSC, burst signal). 2. Select the following group and subject. Group: DLP Subjects: V-R1-GAIN (Red) V-B1-GAIN (Blue)	1. Adjust V-R1-GAIN and V-B1-GAIN so that x-value should be 265±3 and y-value should be 298±3.
14	Automatic adjustment of DTV white balance	1. Feed the 50% gray pattern signal (480I, color difference signal). 2. Select the following group and subject. Group: DLP Subjects: C-R1-GAIN C-B1-GAIN	1. Adjust C-R1-GAIN and C-B1-GAIN so that x-value should be 263±3 and y-value should be 295±3.
15	Adjustment of DLP voltage (For reference)	1. Read voltage rank of DLP description. 2. Set the switch corresponding to the rank which has been read. (on the formatter PWB)	1. Carry out adjustment when DLP chip has been replaced or combination of chip and formatter has been changed. 2. Rank: B C D E Setting value: 1 2 3 4
16	Confirmation and re-adjustment of white balance	1. The adjusting conditions for each item are as follows: For RGB input, see Item 11 For SRGB input, see Item 13 For video input, see Item 14 For DVT input, see Item 12	Confirm that there is no deviation in white balance from that of the monitoring equipment. For readjustment, proceed in the order of RGB input, video input and DTV input.
17	Confirmation of color-related operation	1. Receive the color bar signal.	1. Select L1 in the process mode. Check the performance of color and tint.
18	Confirmation of picture-related operation	1. Receive monoscope pattern signal.	1. Select L2 in the process mode. Check Picture, Brightness and Sharpness.
19	Confirmation of RGB	1. Receive the RGB signal.	1. Select L4 on the process mode. Check Picture, Brightness, Red, Blue, Clock, Phase, H-POS and V-POS.
20	Confirmation of off-timer operation		1. Select OFF in the process mode. Confirm that the off-timer starts with 5-minute display, counts 1 minute for 1 second, and turns off when 0 minute is displayed.
21	Confirmation of thermistor operation	1. Heat the thermistor by dryer.	1. Confirm that the temperature is displayed.

<table>
<tr><th>No.</th><th>Adjustment Items</th><th>Adjustment Conditions</th><th>Adjustment Procedures</th></tr>
<tr><td>22</td><td>Automatic sync operation</td><td>1. Receive the phase checking pattern signal.</td><td>1. Confirm that Clock, Phase, H-POS and V-POS can be automatically adjusted in the VGA/S-VGA/XGA mode.</td></tr>
<tr><td>23</td><td>Confirmation of USB operation</td><td>Connect the set to a personal computer by USB cable.</td><td>Using the remote controller, make sure that feed and return operations are effective on the display of the personal computer.</td></tr>
<tr><td>24</td><td>Factory settings</td><td></td><td>1. Make the following settings.
<table>
<tr><th>Process adjustment</th><th>Remote controller settings</th></tr>
<tr><td>S4</td><td>"Factory Setting 4"</td></tr>
</table>
</td></tr>
</table>

How to Adjust the PC I/F unit

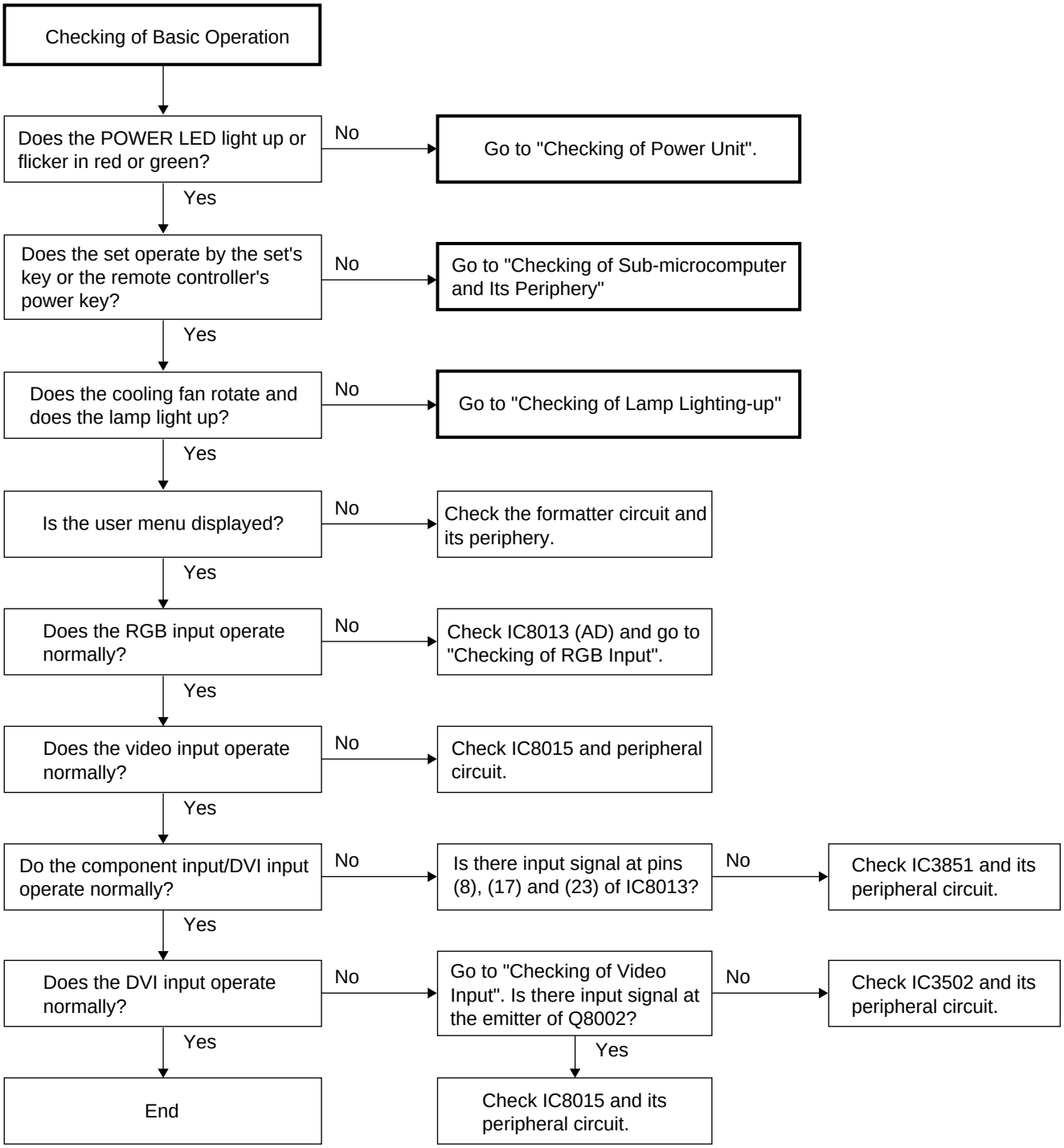
1. Initialization of EEPROM
   1) Press SW2002 to enter the process mode.
   2) Execute S1 on the SSS menu. (By S1, all the contents of EEPROM are initialized.)
   3) Confirm that the program version "Ver. XXX" has become the latest one
2. Adjusting items
   1) Adjustment of RGB drive/gain
      (1) feed the window pattern signal that has 100% and 0% signals.
      (2) Select AUTO among the A/D items in the process mode and carry out adjustment.

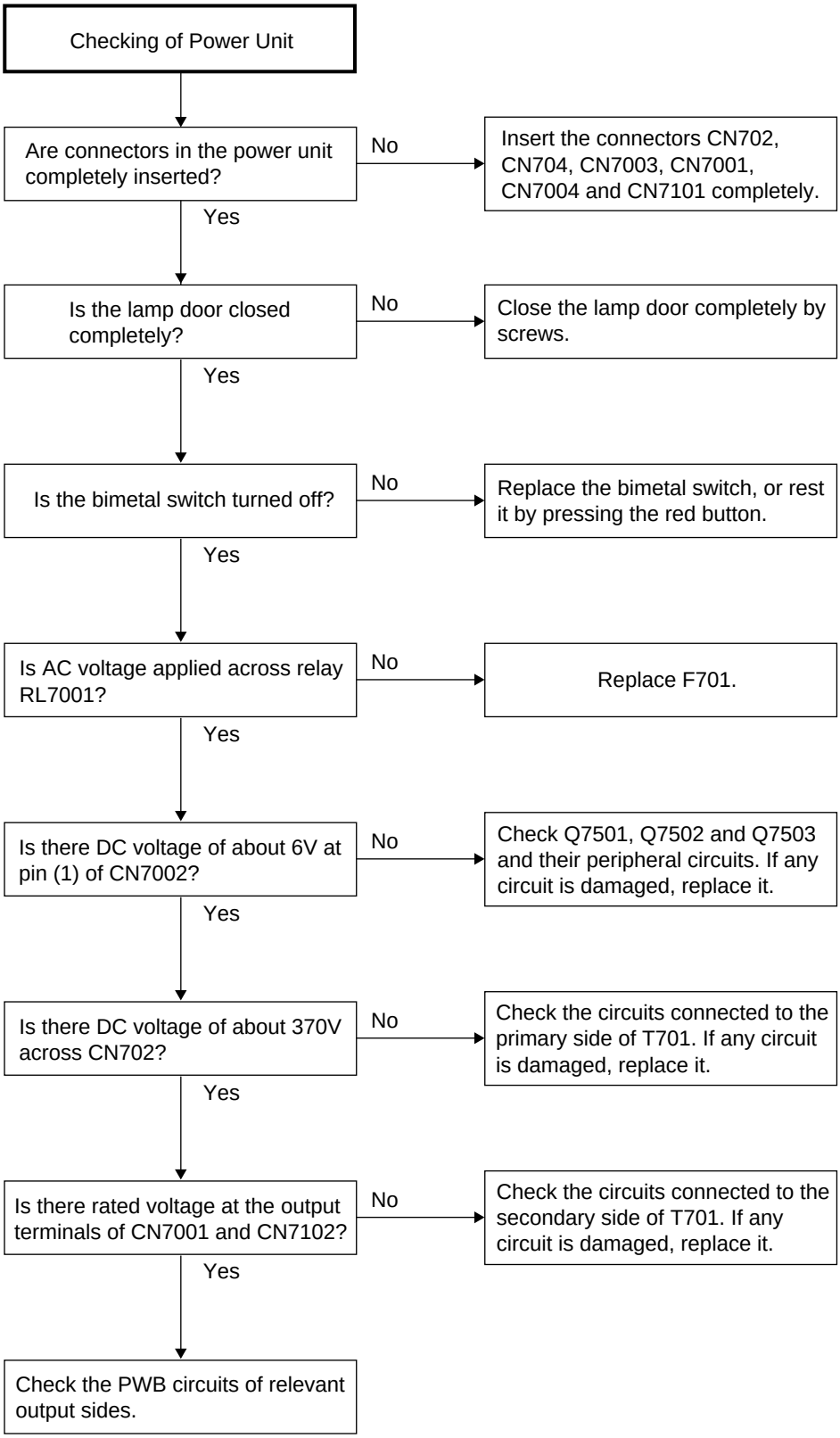
● Adjustment mode process menu

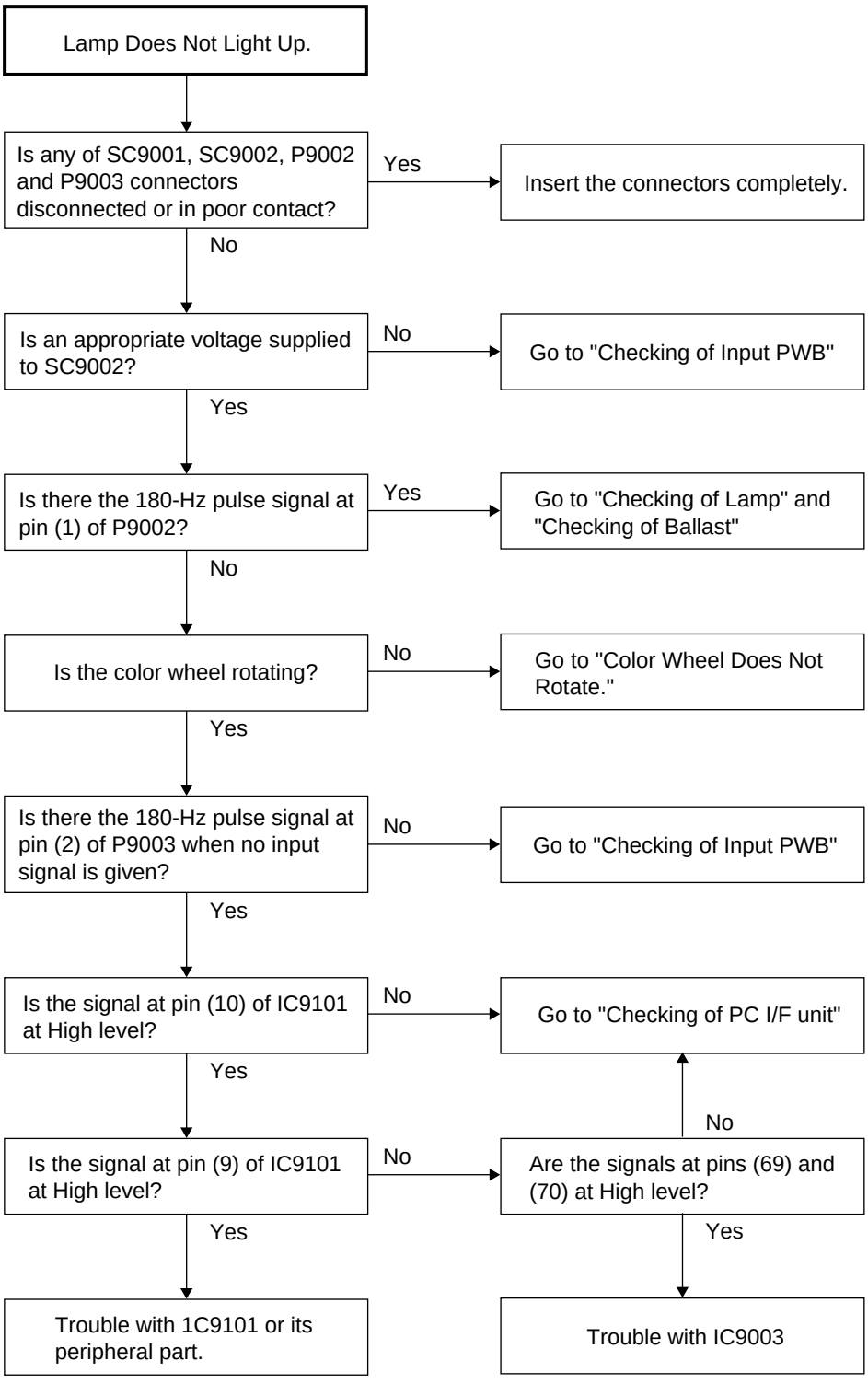
Group	Sub Group	Subject
Adjust PC Image	A/D	R-BRIGHT G-BRIGHT B-BRIGHT R-D B-D G-D AD-AUTO
Adjust DLP Image	DLP	R1-BLK R1-GAIN G1-BLK G1-GAIN B1-GAIN CW-INDEX S-R1-GAIN S-G1-GAIN S-B1-GAIN C-R1-GAIN C-B1-GAIN V-R1-GAIN V-B1-GAIN
Adjust VIDEO Image	VIDEO	PICTURE BRIGHT TINT N-COLOR P-COLOR S-COLOR STAT-GAIN VIDEO-AUTO
Adjust Component Image	DTV	G-BRIGHT CB-OFFSET CR-OFFSET COMPO-AUTO
Process mode	LINE	L1 L2 L3 OFF TEMP OFF SENSOR CHECK
INTIAL SETTING	SSS	TIME S1 S2 S3 S4 S5
Sample Pattern	PATTERN	RGB RGB(50) CROSS SETP COLOR CHR

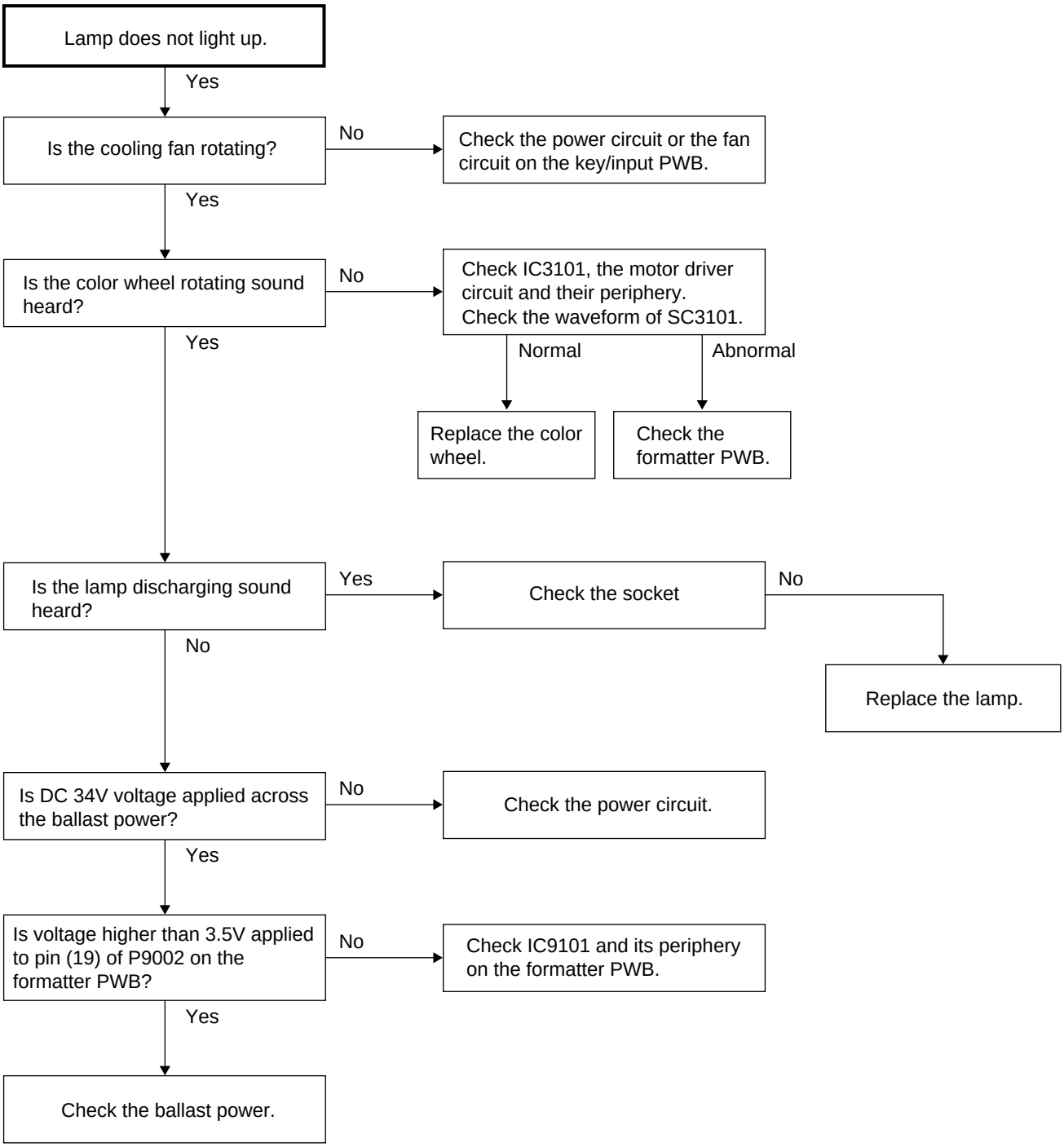
Group	Sub Group	Subject
Adjust CVIC	CVIC-PROGRSSIVE	MODE IP MDSW PTGSW C-TESTSW C-ILG-LY C-MOD-LY C-VE-LV
	CVIC-ENHANCE-VIDE	ENH-PLUS ENH-MINUS DFC
	CVIC-ENHANCE-HTTV	ENH-PLUS ENH-MINUS DFC
	CVIC-ENHANCE-RGB	ENH-PLUS ENH-MINUS DFC
	CVIC-SCREEN	CUBIC-RGB CUBIC-VEDEO
	CVIC-NR	YNR-LEVEL YNR-K YNR-FSEL CNR-LEVEL CNR-K CNR-FSEL CNR-FILSW
	CVIC-PTG	TBL-NO
	CVIC-CMS	RED YELLOW GREEN VYAN BLUE MAGENTA
Version Check etc	Special	IPL IPL2 E2PROM ADR RD/WR

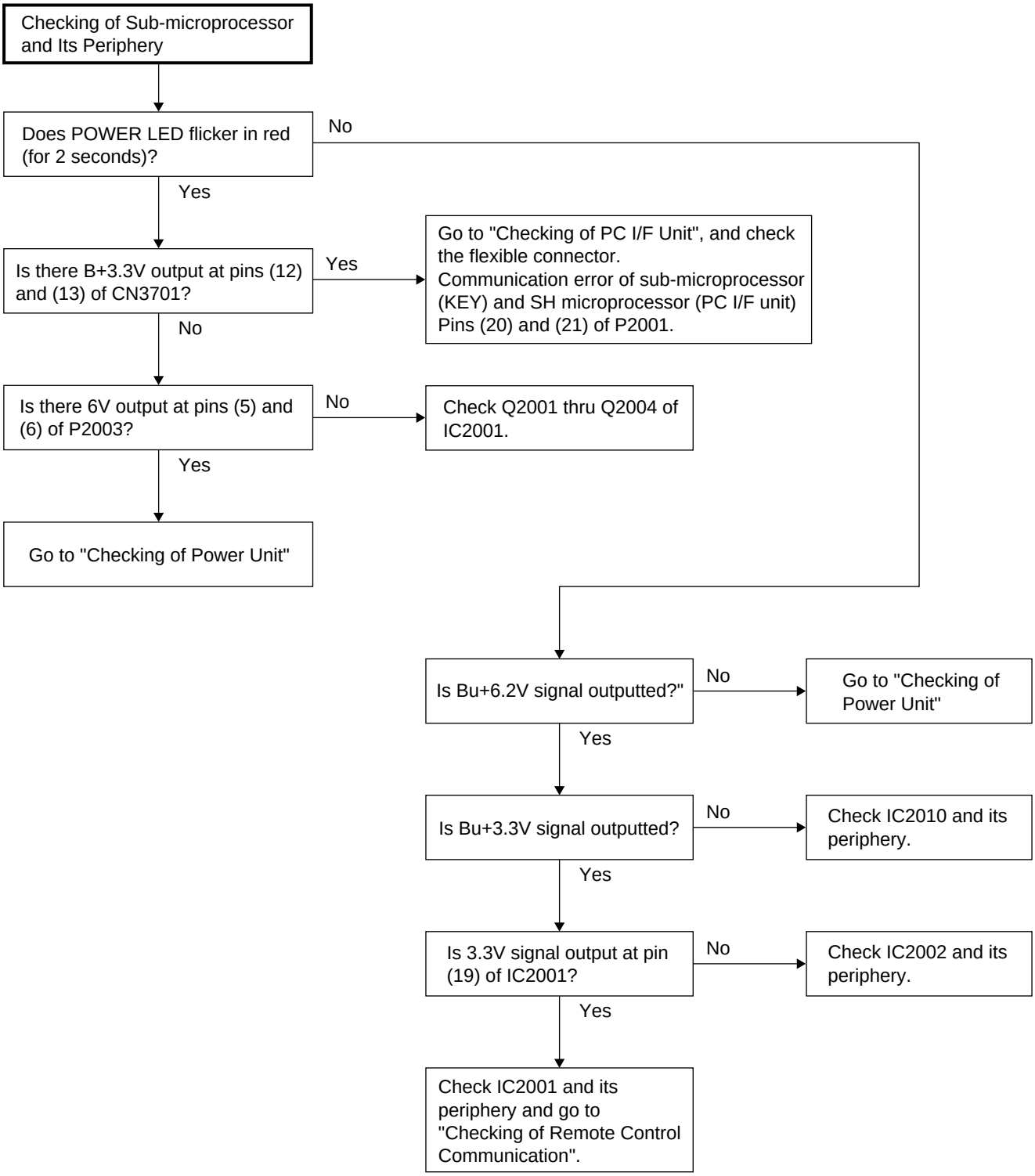
TROUBLE SHOOTING TABLE

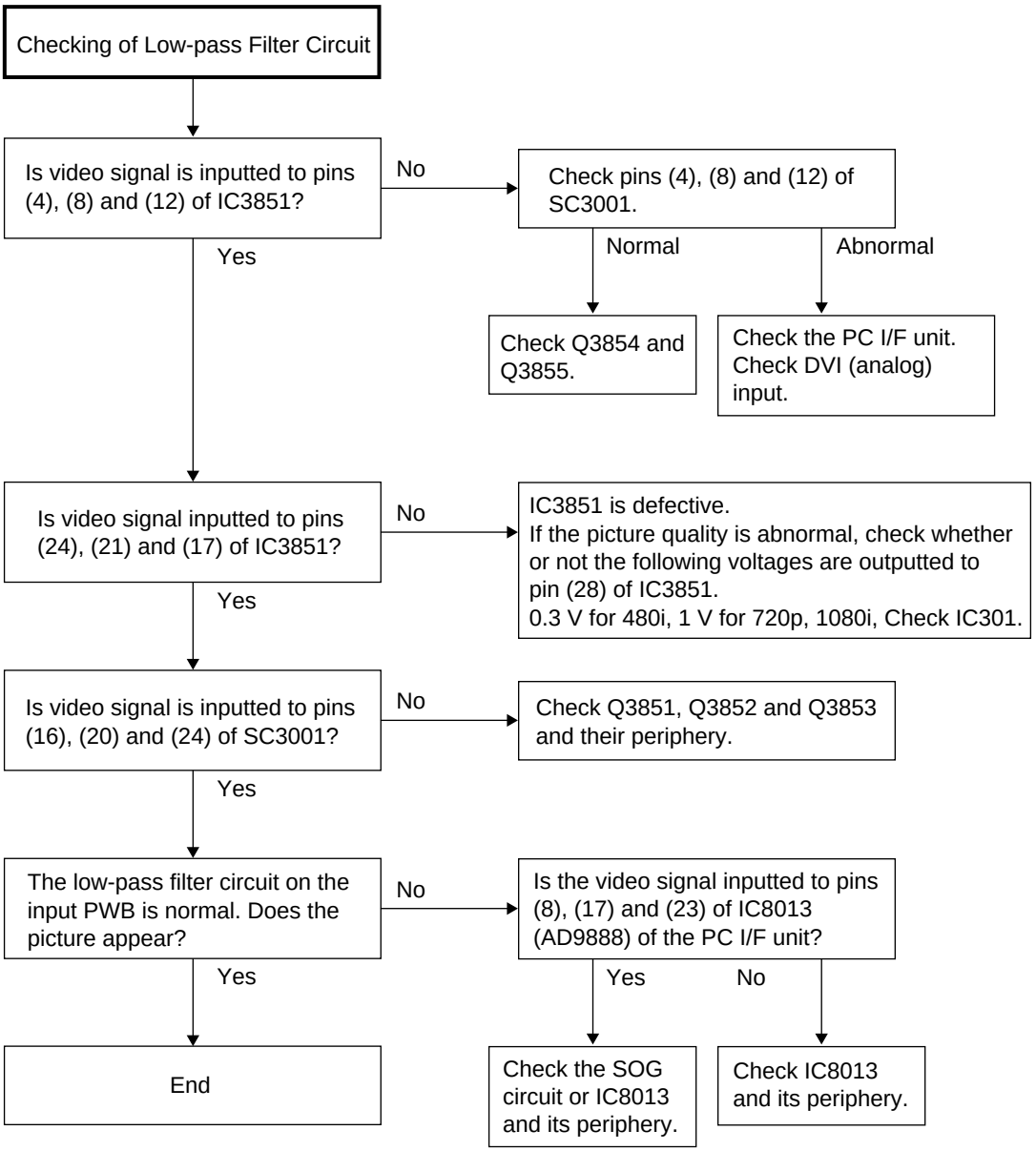


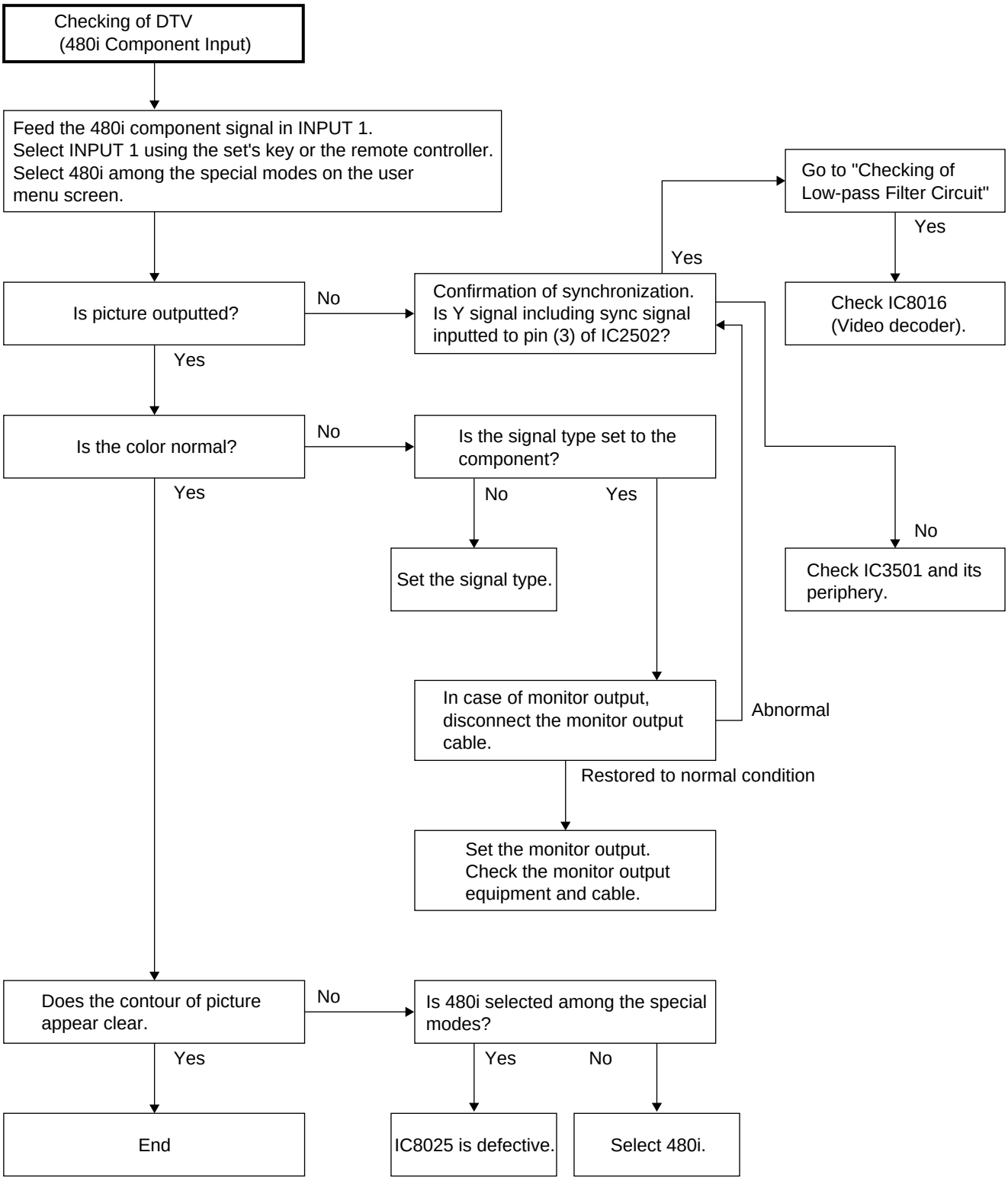

Checking of Power Unit
Are connectors in the power unit completely inserted?
No
Insert the connectors CN702, CN704, CN7003, CN7001, CN7004 and CN7101 completely.
Yes
Is the lamp door closed completely?
No
Close the lamp door completely by screws.
Yes
Is the bimetal switch turned off?
No
Replace the bimetal switch, or rest it by pressing the red button.
Yes
Is AC voltage applied across relay RL7001?
No
Replace F701.
Yes
Is there DC voltage of about 6V at pin (1) of CN7002?
No
Check Q7501, Q7502 and Q7503 and their peripheral circuits. If any circuit is damaged, replace it.
Yes
Is there DC voltage of about 370V across CN702?
No
Check the circuits connected to the primary side of T701. If any circuit is damaged, replace it.
Yes
Is there rated voltage at the output terminals of CN7001 and CN7102?
No
Check the circuits connected to the secondary side of T701. If any circuit is damaged, replace it.
Yes
Check the PWB circuits of relevant output sides.

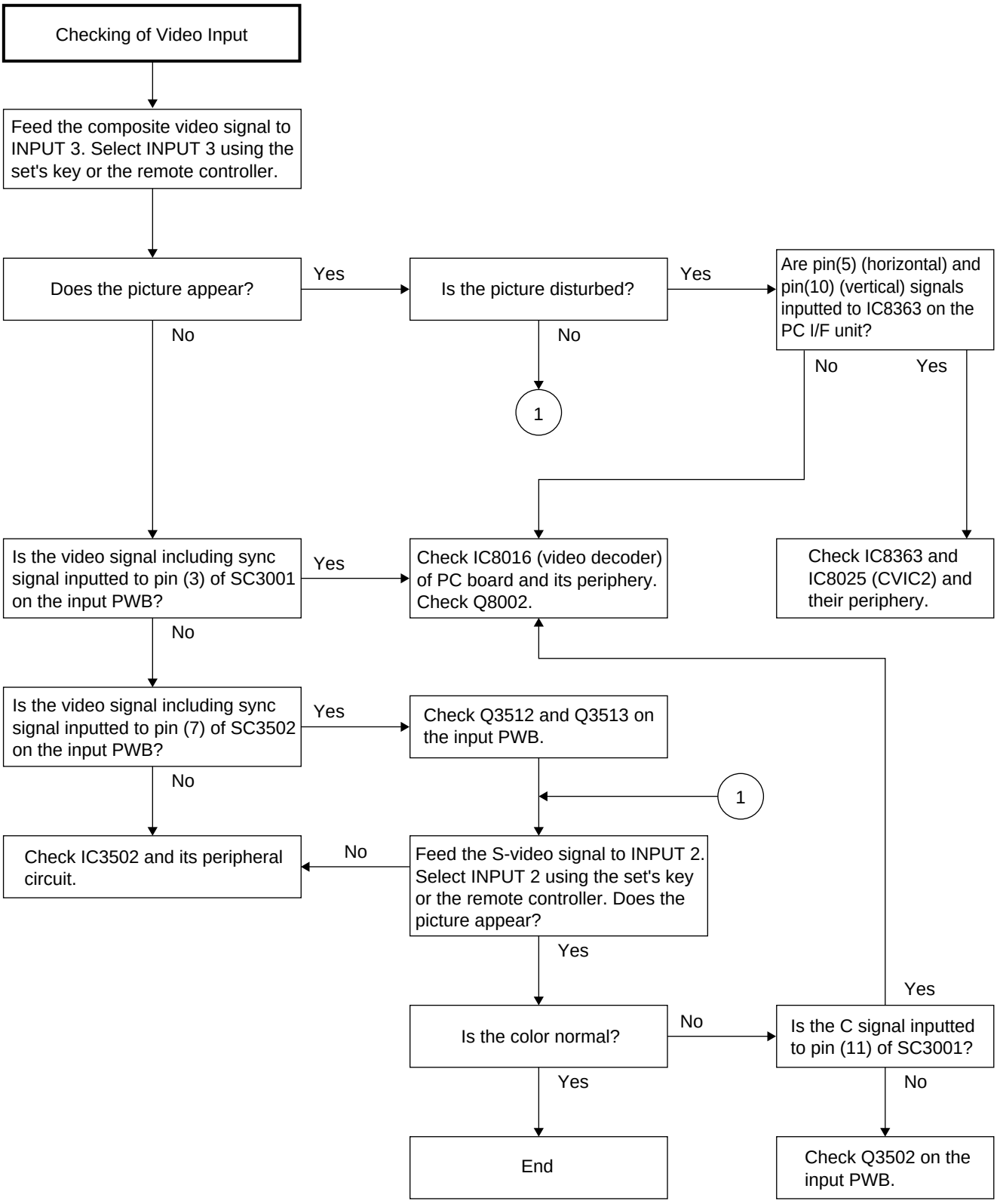

Lamp Does Not Light Up.
Is any of SC9001, SC9002, P9002 and P9003 connectors disconnected or in poor contact?
Yes
Insert the connectors completely.
No
Is an appropriate voltage supplied to SC9002?
No
Go to "Checking of Input PWB"
Yes
Is there the 180-Hz pulse signal at pin (1) of P9002?
Yes
Go to "Checking of Lamp" and "Checking of Ballast"
No
Is the color wheel rotating?
No
Go to "Color Wheel Does Not Rotate."
Yes
Is there the 180-Hz pulse signal at pin (2) of P9003 when no input signal is given?
No
Go to "Checking of Input PWB"
Yes
Is the signal at pin (10) of IC9101 at High level?
No
Go to "Checking of PC I/F unit"
Yes
No
Is the signal at pin (9) of IC9101 at High level?
No
Are the signals at pins (69) and (70) at High level?
Yes
Yes
Trouble with 1C9101 or its peripheral part.
Trouble with IC9003


Lamp does not light up.
Yes
Is the cooling fan rotating?
No
Check the power circuit or the fan circuit on the key/input PWB.
Yes
Is the color wheel rotating sound heard?
No
Check IC3101, the motor driver circuit and their periphery. Check the waveform of SC3101.
Yes
Normal
Abnormal
Replace the color wheel.
Check the formatter PWB.
Is the lamp discharging sound heard?
Yes
Check the socket
No
Replace the lamp.
No
Is DC 34V voltage applied across the ballast power?
No
Check the power circuit.
Yes
Is voltage higher than 3.5V applied to pin (19) of P9002 on the formatter PWB?
No
Check IC9101 and its periphery on the formatter PWB.
Yes
Check the ballast power.

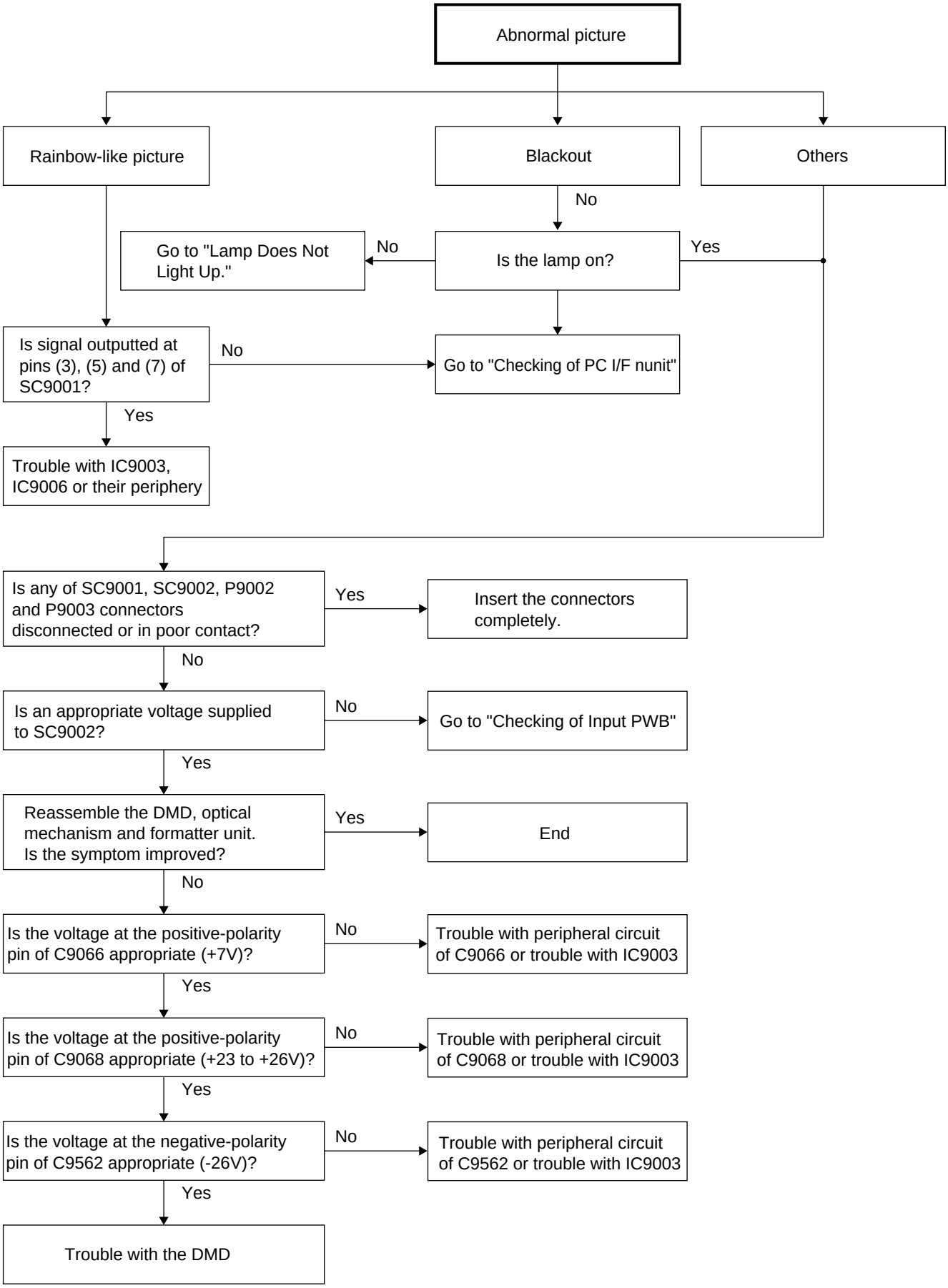

Checking of Sub-microprocessor and Its Periphery
Does POWER LED flicker in red (for 2 seconds)?
No
Yes
Is there B+3.3V output at pins (12) and (13) of CN3701?
Yes
Go to "Checking of PC I/F Unit", and check the flexible connector.
Communication error of sub-microprocessor (KEY) and SH microprocessor (PC I/F unit)
Pins (20) and (21) of P2001.
No
Is there 6V output at pins (5) and (6) of P2003?
No
Check Q2001 thru Q2004 of IC2001.
Yes
Go to "Checking of Power Unit"
Is Bu+6.2V signal outputted?"
No
Go to "Checking of Power Unit"
Yes
Is Bu+3.3V signal outputted?
No
Check IC2010 and its periphery.
Yes
Is 3.3V signal output at pin (19) of IC2001?
No
Check IC2002 and its periphery.
Yes
Check IC2001 and its periphery and go to "Checking of Remote Control Communication".


Checking of Low-pass Filter Circuit
Is video signal is inputted to pins (4), (8) and (12) of IC3851?
No
Check pins (4), (8) and (12) of SC3001.
Normal
Abnormal
Yes
Check Q3854 and Q3855.
Check the PC I/F unit. Check DVI (analog) input.
Is video signal inputted to pins (24), (21) and (17) of IC3851?
No
IC3851 is defective.
If the picture quality is abnormal, check whether or not the following voltages are outputted to pin (28) of IC3851.
0.3 V for 480i, 1 V for 720p, 1080i, Check IC301.
Yes
Is video signal is inputted to pins (16), (20) and (24) of SC3001?
No
Check Q3851, Q3852 and Q3853 and their periphery.
Yes
The low-pass filter circuit on the input PWB is normal. Does the picture appear?
No
Is the video signal inputted to pins (8), (17) and (23) of IC8013 (AD9888) of the PC I/F unit?
Yes
Yes
No
End
Check the SOG circuit or IC8013 and its periphery.
Check IC8013 and its periphery.

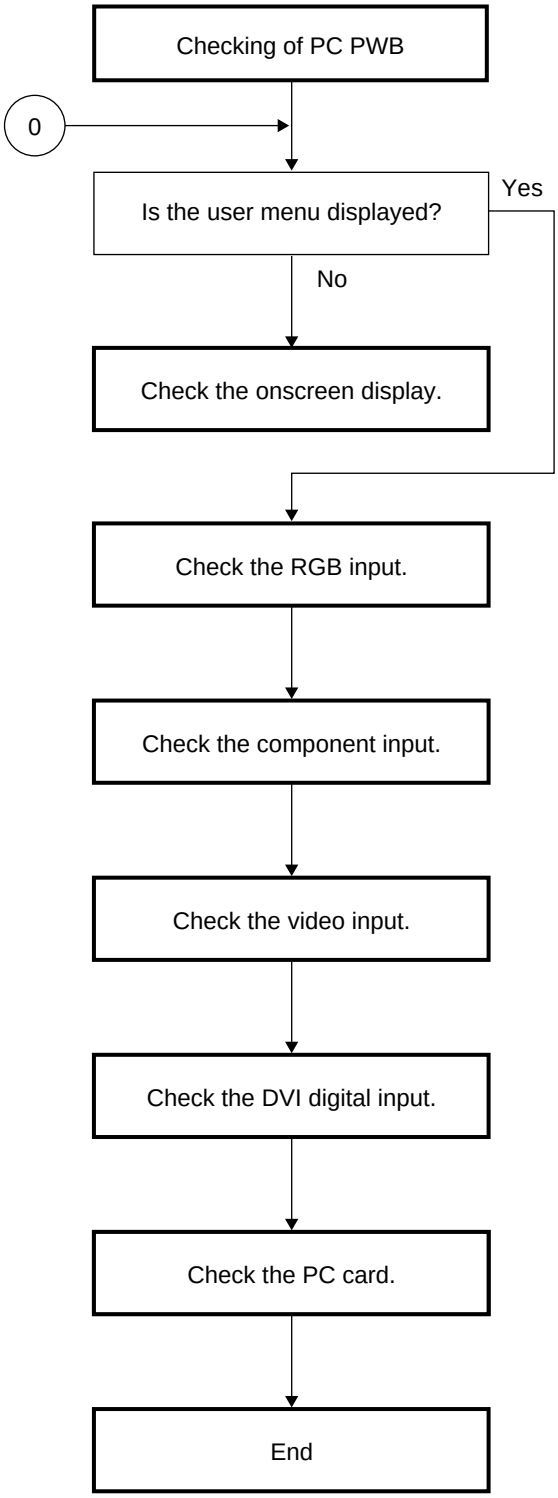

Checking of DTV
(480i Component Input)
Feed the 480i component signal in INPUT 1.
Select INPUT 1 using the set's key or the remote controller.
Select 480i among the special modes on the user menu screen.
Is picture outputted?
No
Yes
Confirmation of synchronization.
Is Y signal including sync signal inputted to pin (3) of IC2502?
Yes
Go to "Checking of Low-pass Filter Circuit"
Yes
Check IC8016
(Video decoder).
Is the color normal?
No
Yes
Is the signal type set to the component?
No
Yes
Set the signal type.
No
Check IC3501 and its periphery.
In case of monitor output, disconnect the monitor output cable.
Abnormal
Restored to normal condition
Set the monitor output.
Check the monitor output equipment and cable.
Does the contour of picture appear clear.
No
Yes
Is 480i selected among the special modes?
Yes
No
End
IC8025 is defective.
Select 480i.


Checking of Video Input
Feed the composite video signal to INPUT 3. Select INPUT 3 using the set's key or the remote controller.
Does the picture appear?
Yes
Is the picture disturbed?
Yes
Are pin(5) (horizontal) and pin(10) (vertical) signals inputted to IC8363 on the PC I/F unit?
No
No
No
Yes
1
Is the video signal including sync signal inputted to pin (3) of SC3001 on the input PWB?
Yes
Check IC8016 (video decoder) of PC board and its periphery. Check Q8002.
Check IC8363 and IC8025 (CVIC2) and their periphery.
No
Is the video signal including sync signal inputted to pin (7) of SC3502 on the input PWB?
Yes
Check Q3512 and Q3513 on the input PWB.
No
1
Check IC3502 and its peripheral circuit.
No
Feed the S-video signal to INPUT 2. Select INPUT 2 using the set's key or the remote controller. Does the picture appear?
Yes
Yes
Is the color normal?
No
Is the C signal inputted to pin (11) of SC3001?
Yes
No
End
Check Q3502 on the input PWB.

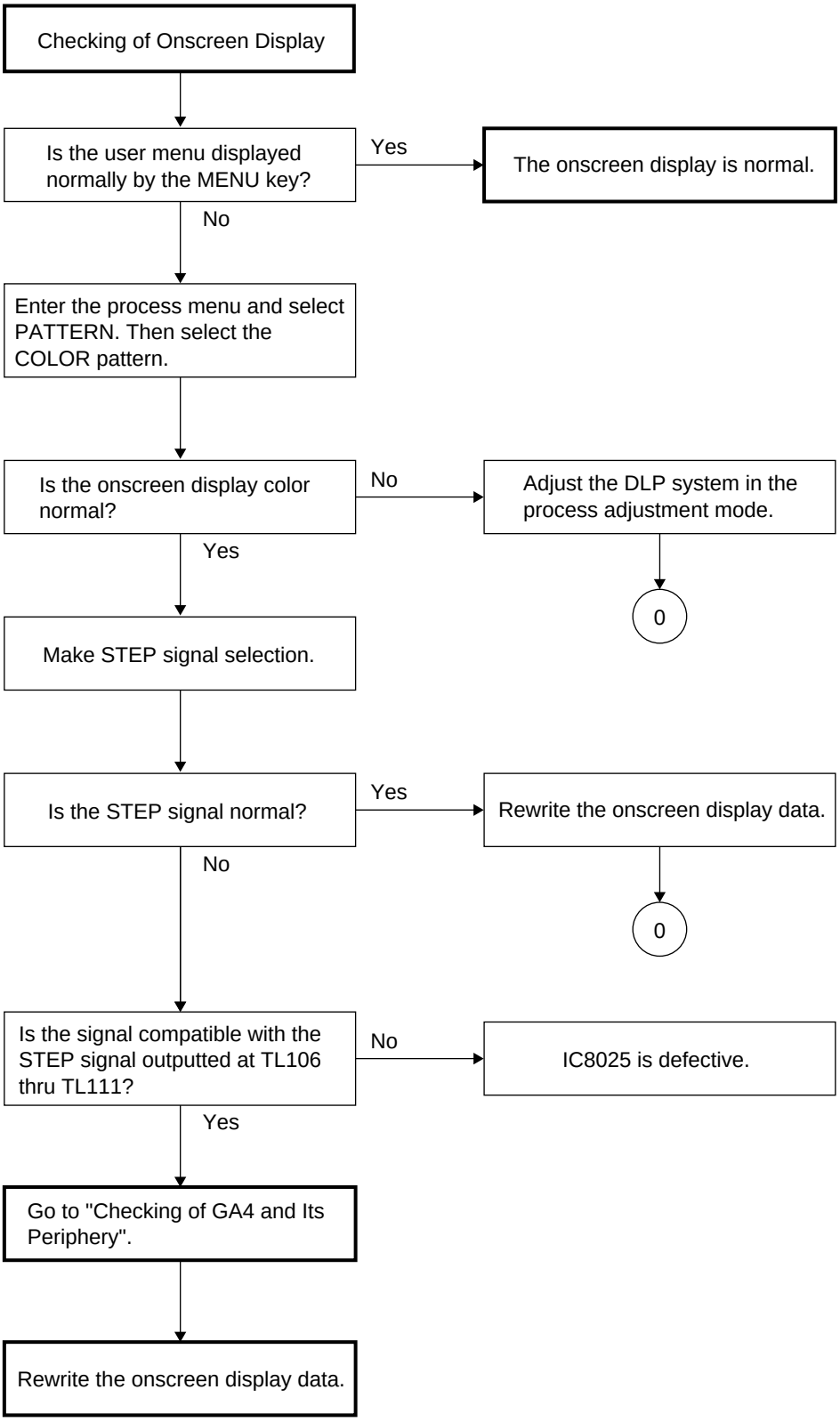
- FORMATTER Unit



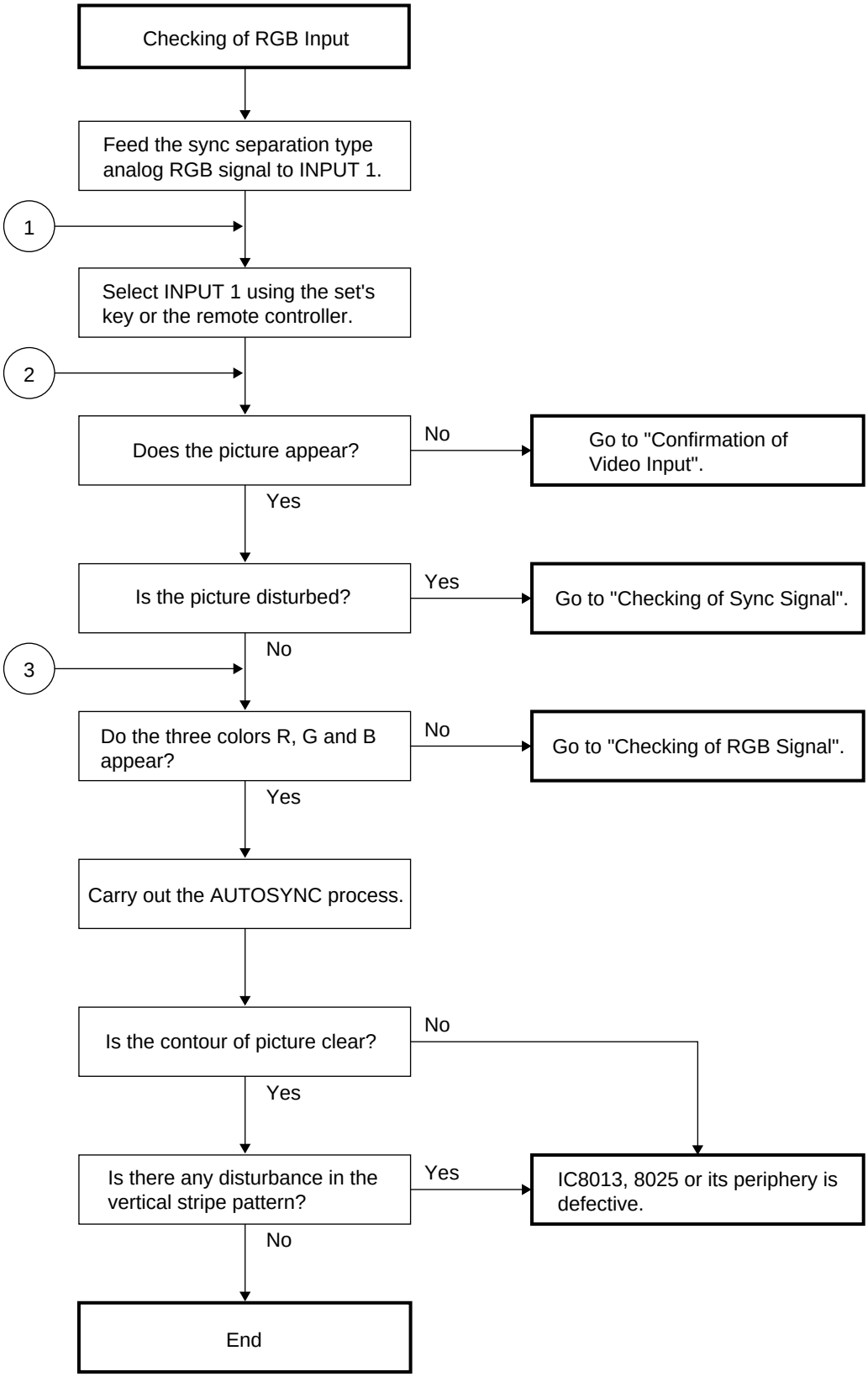
- PC I/F Unit-1/12



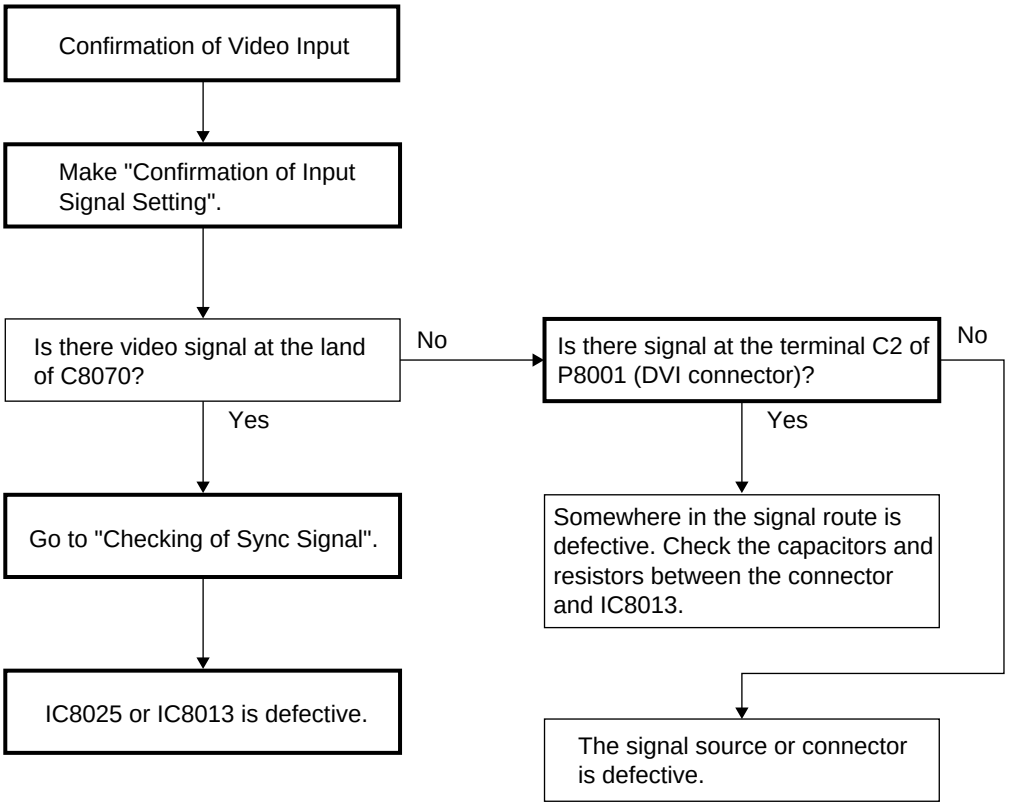
- PC I/F Unit-2/12

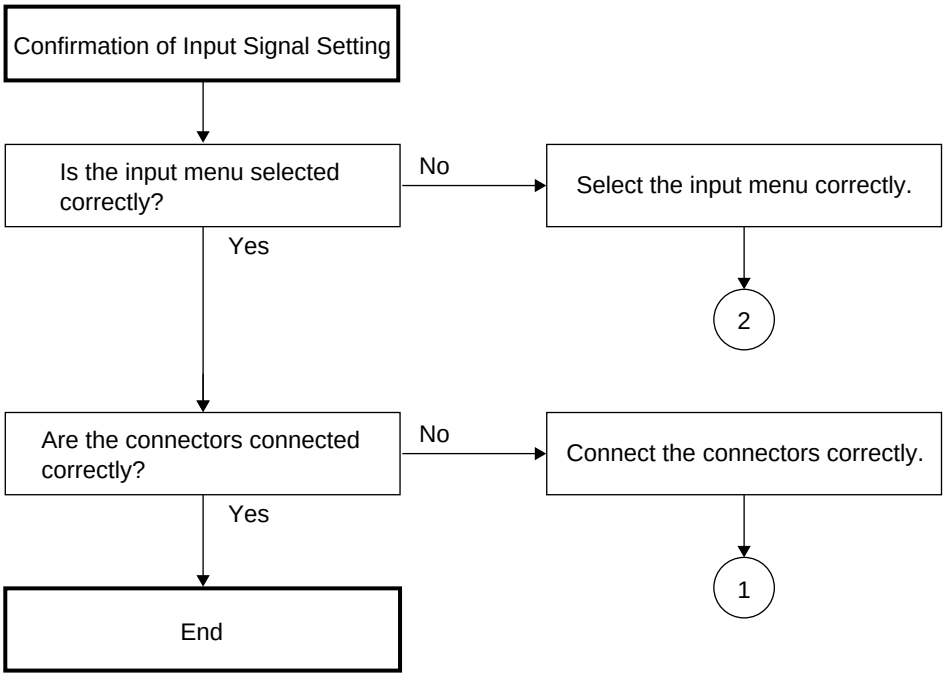


- PC I/F Unit-3/12

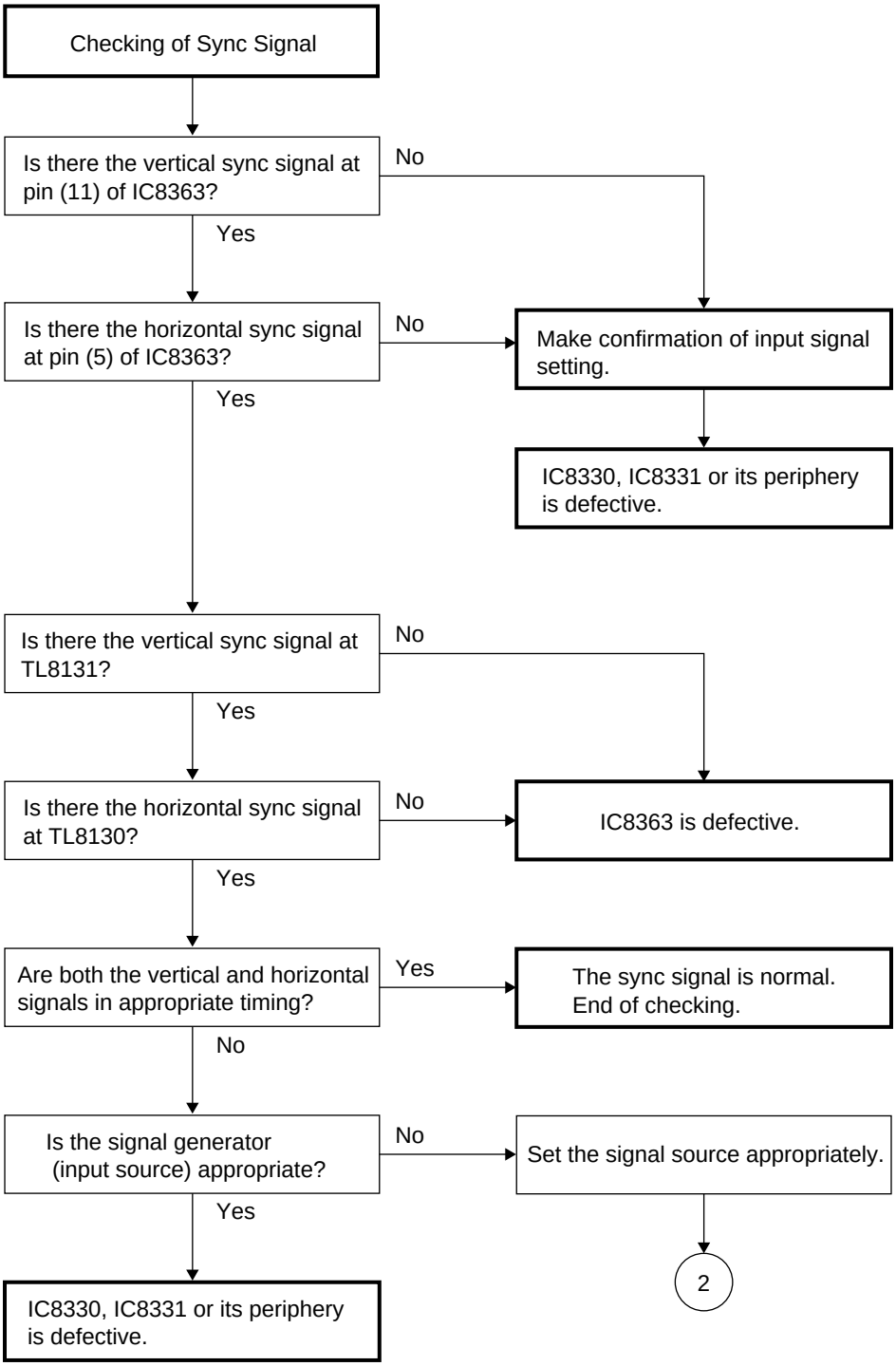


- PC I/F Unit-4/12

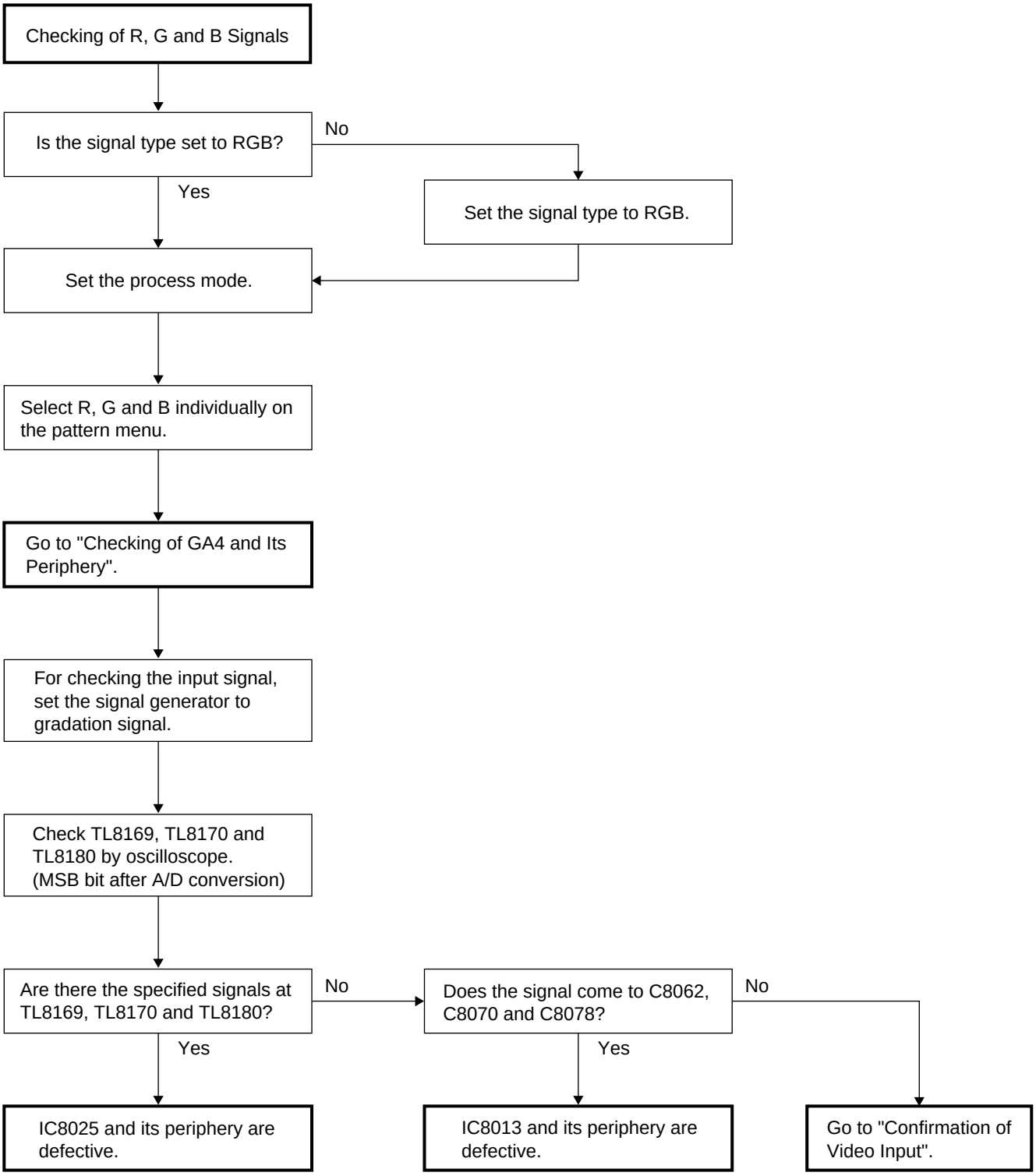




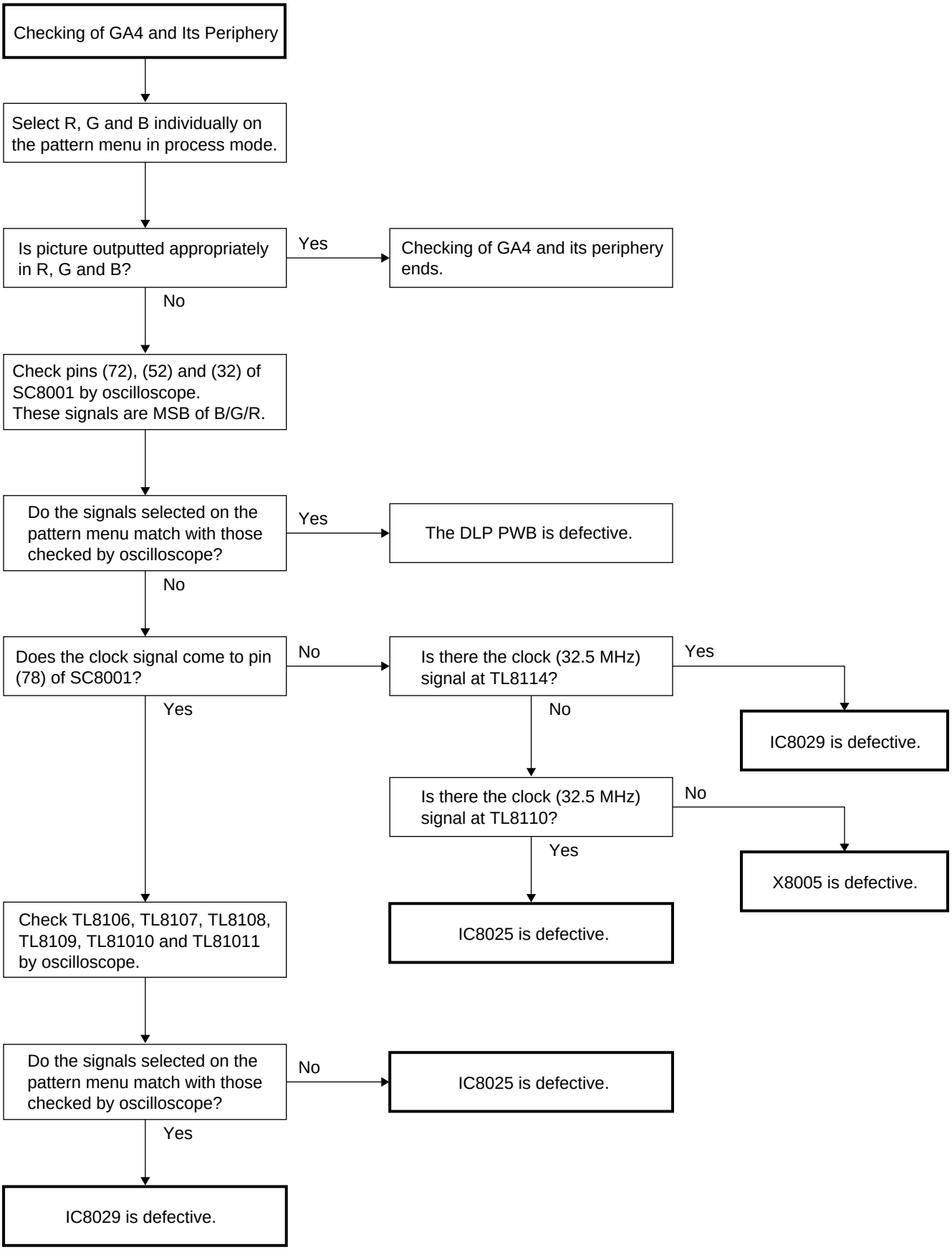
- PC I/F Unit-5/12



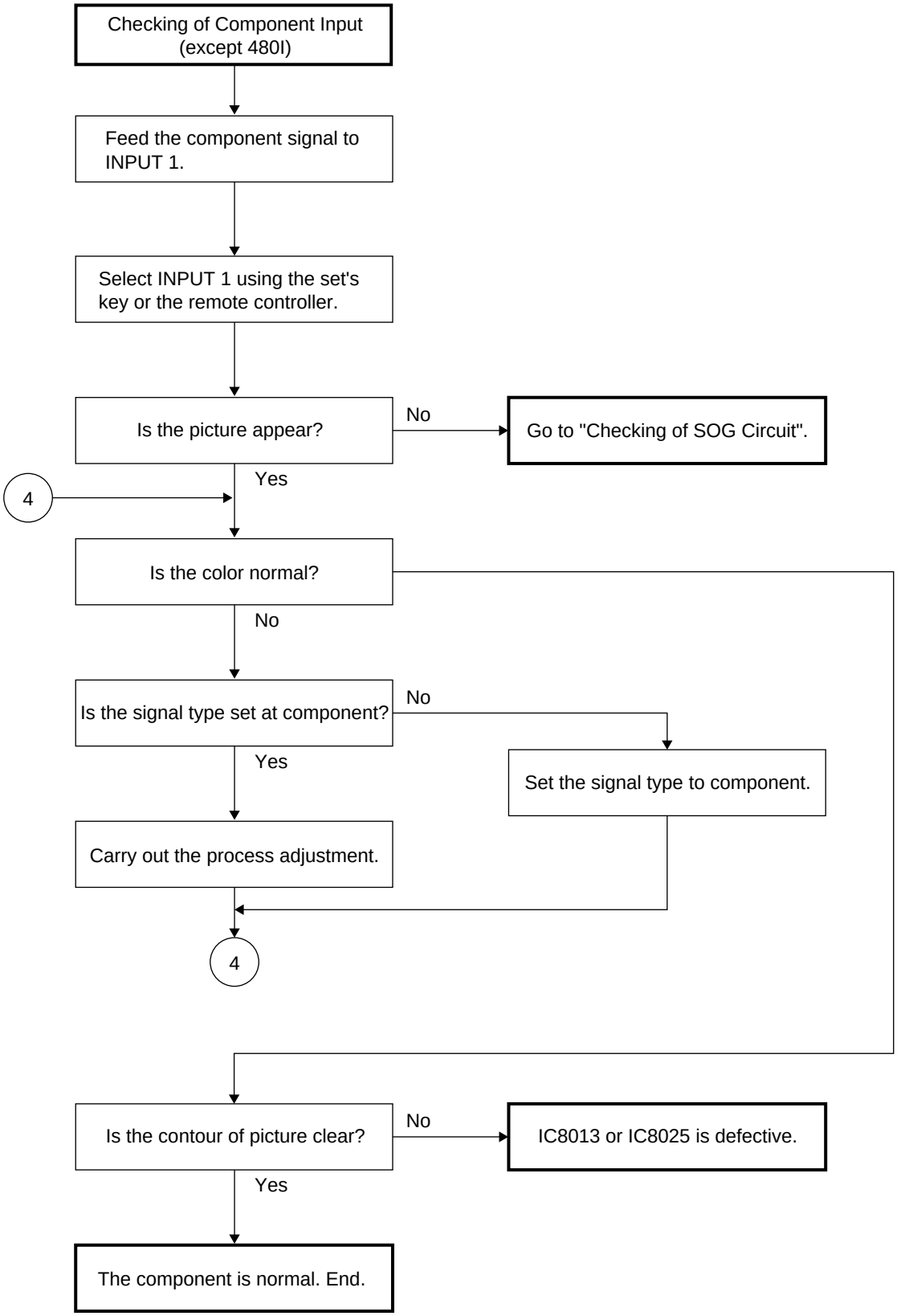
- PC I/F Unit-6/12



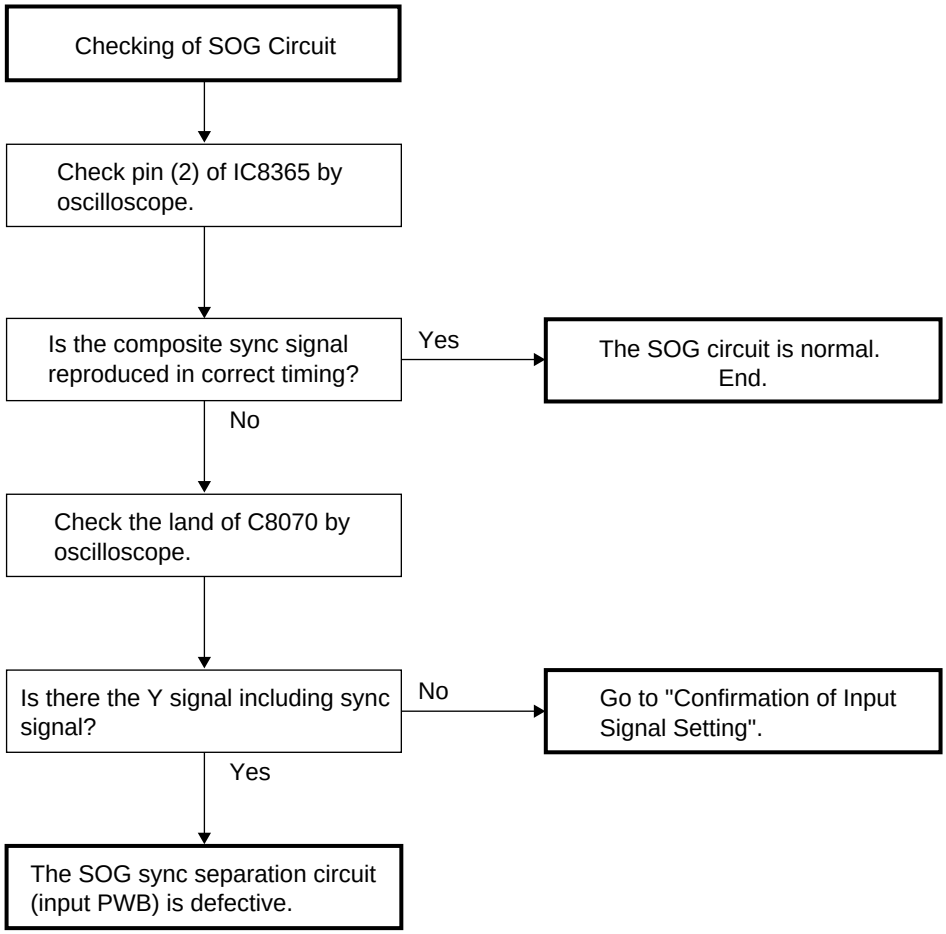
- PC I/F Unit-7/12



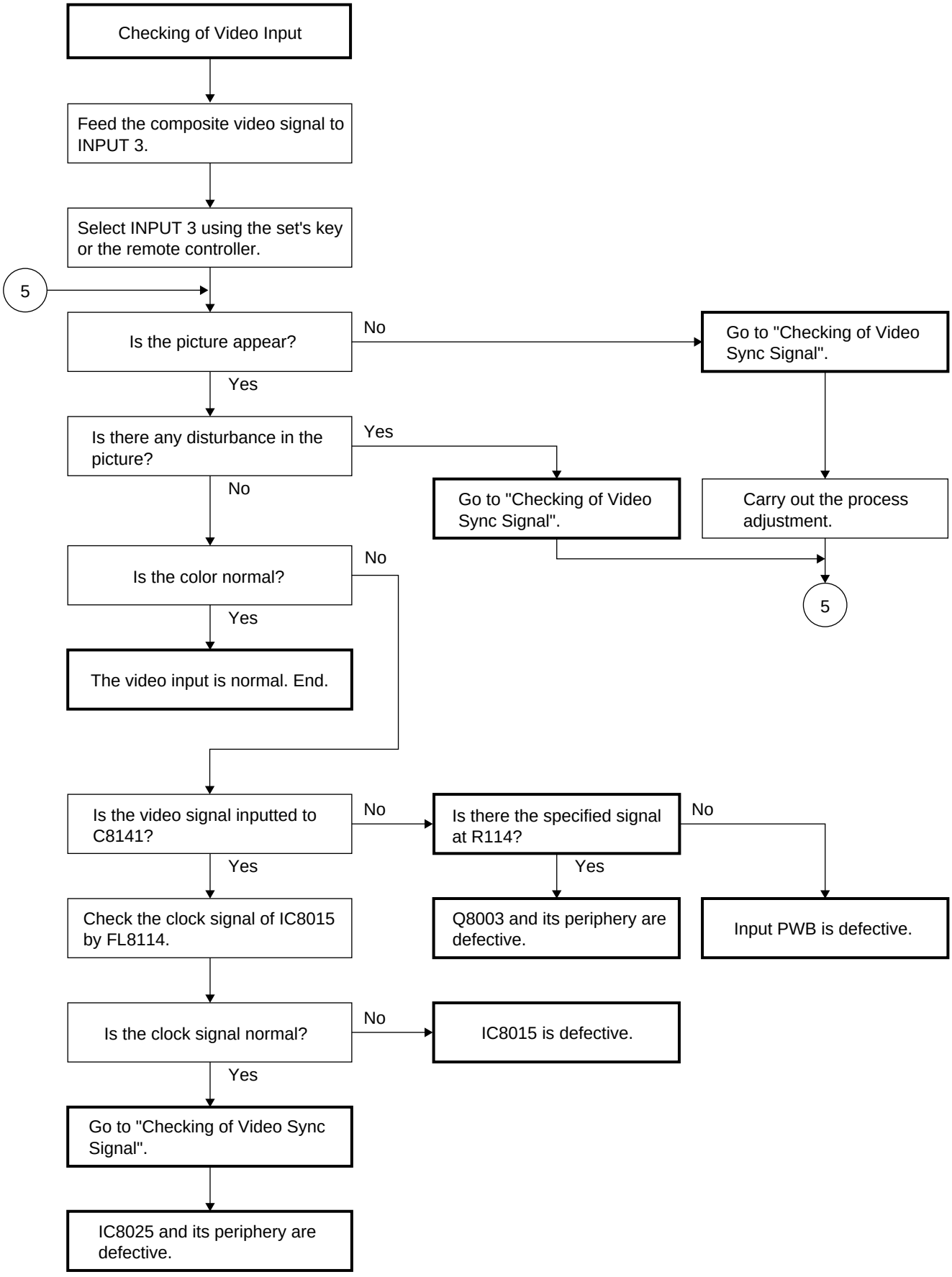
- PC I/F Unit-8/12



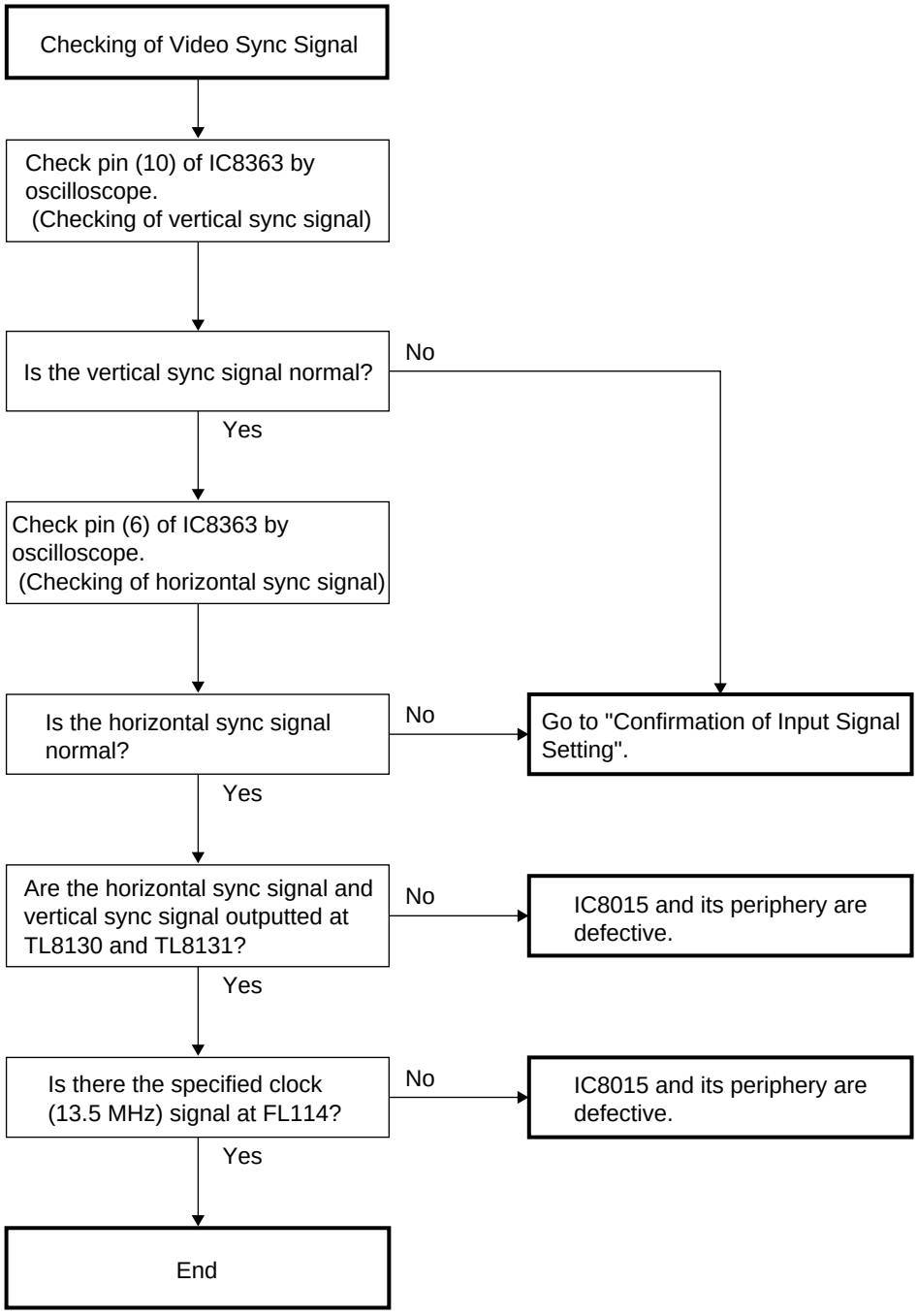
- PC I/F Unit-9/12



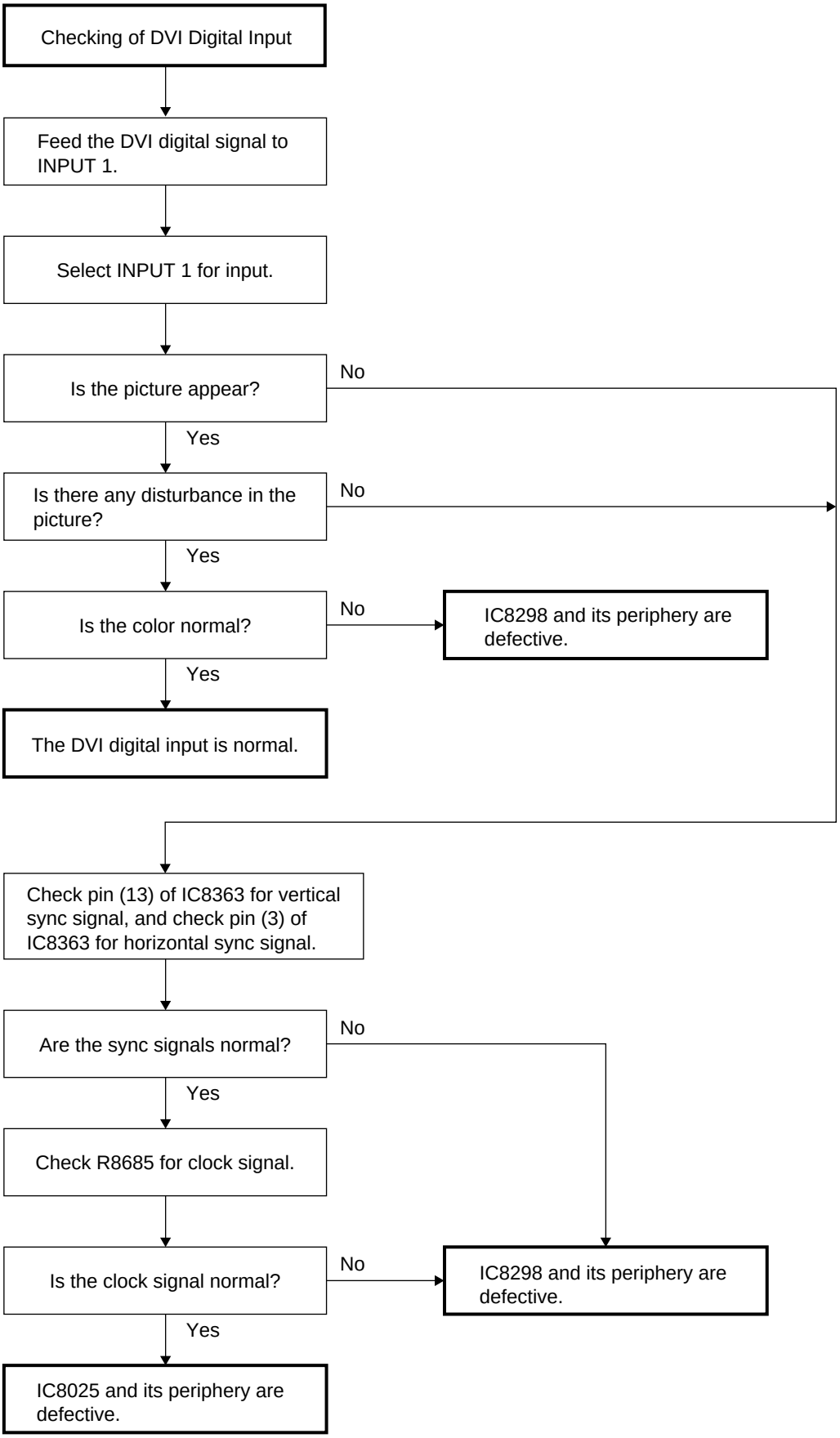
- PC I/F Unit-10/12



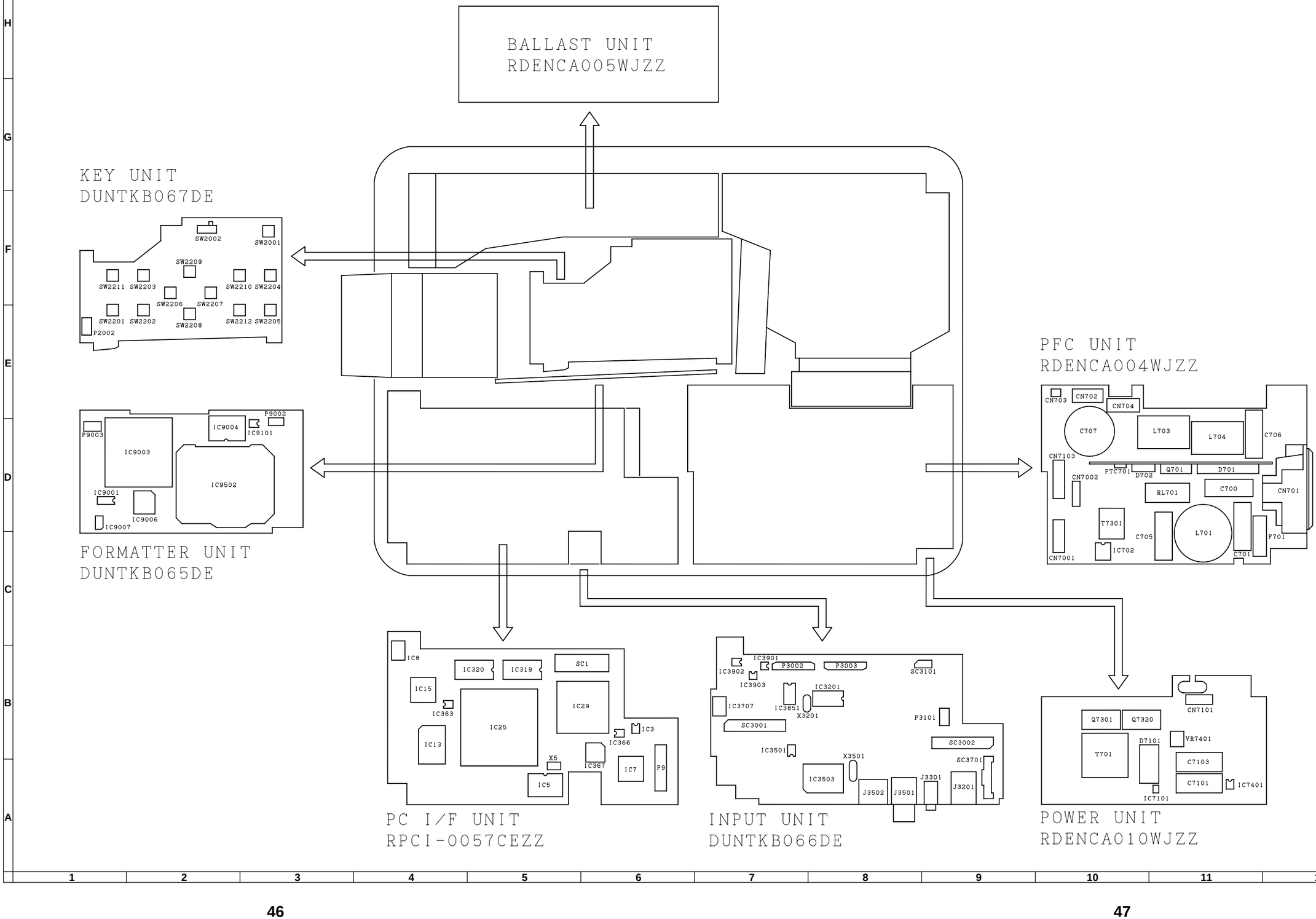
- PC I/F Unit-11/12



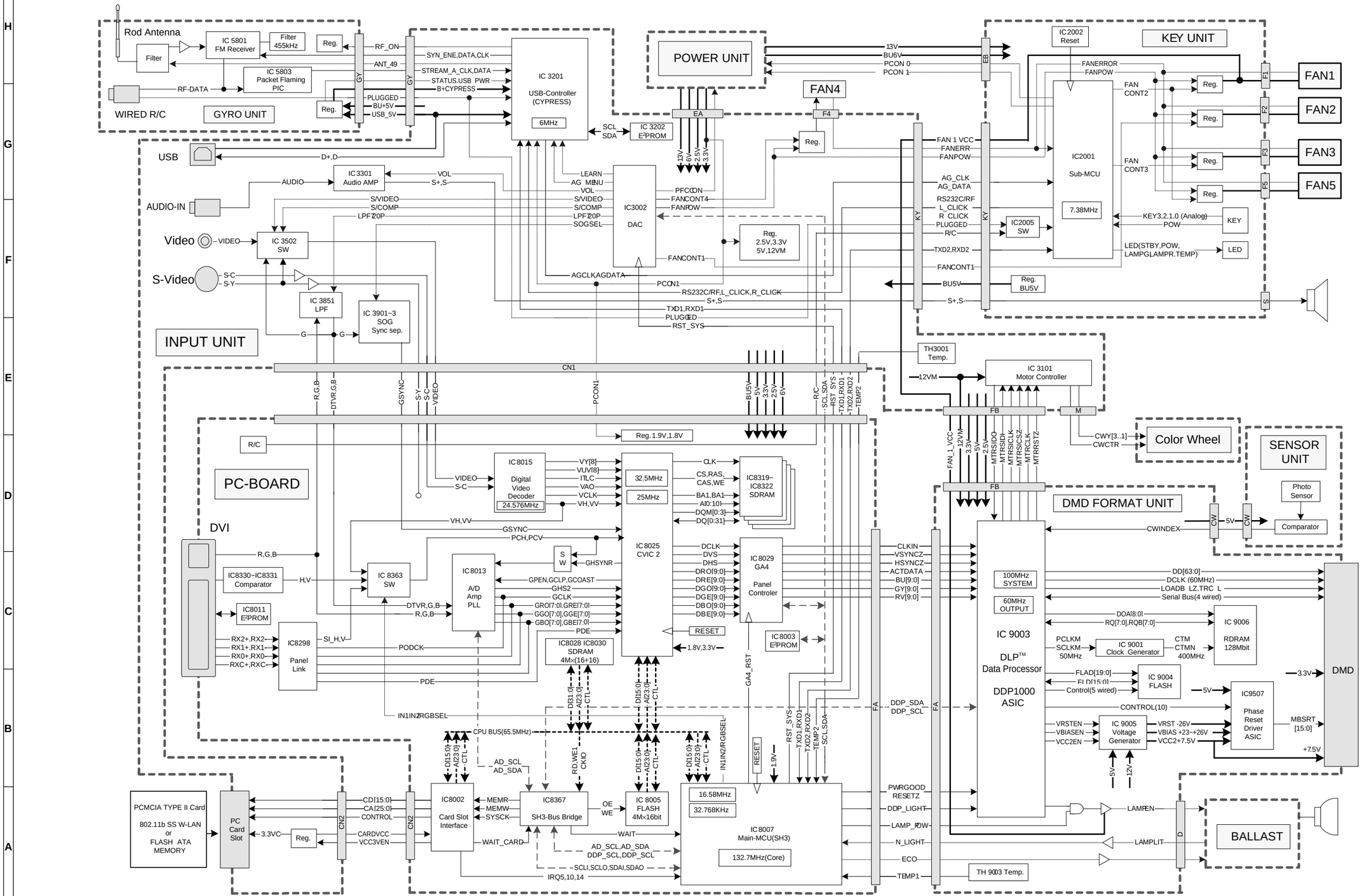
- PC I/F Unit-12/12



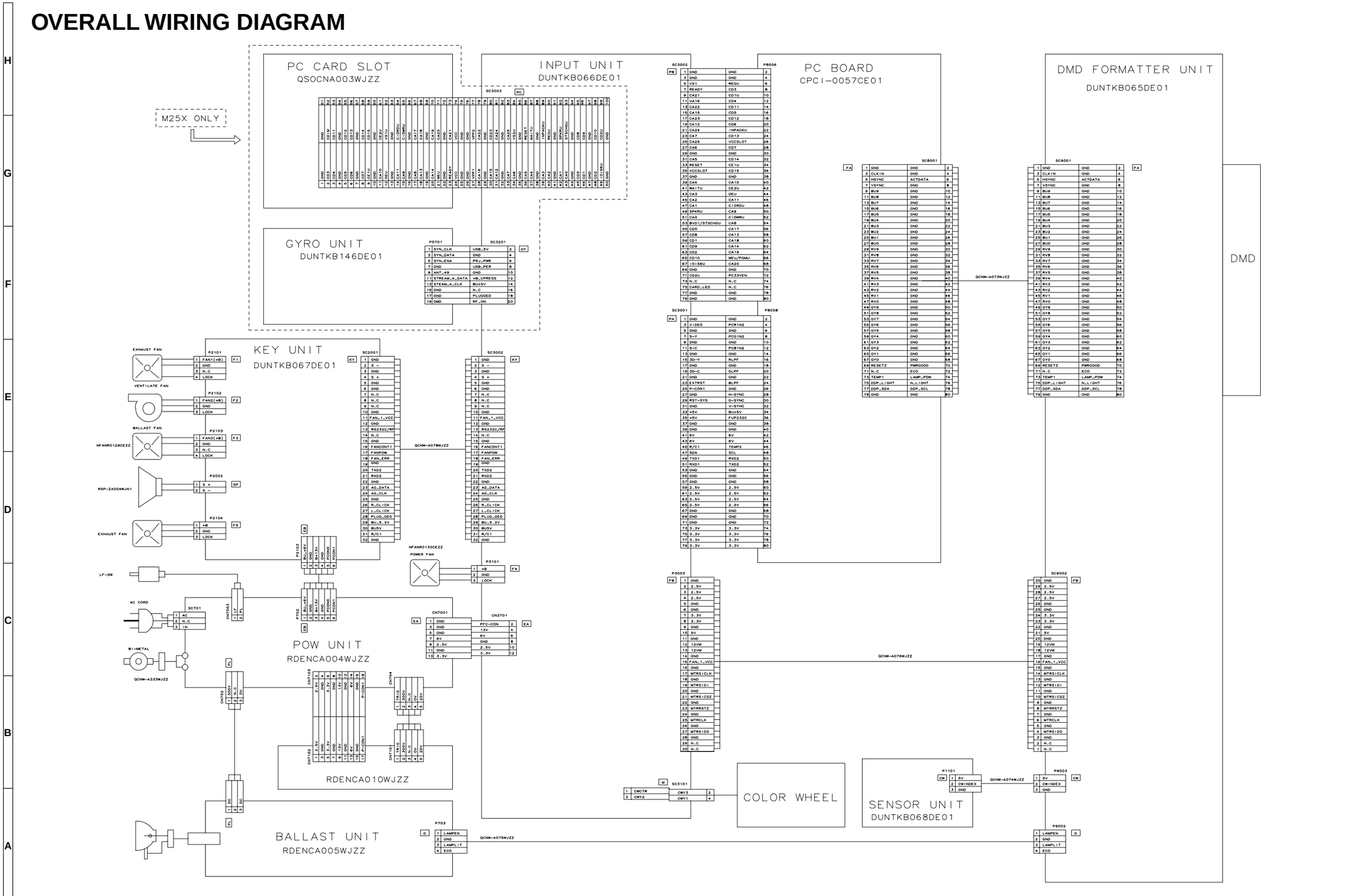
CHASSIS LAYOUT



BLOCK DIAGRAM



OVERALL WIRING DIAGRAM



DESCRIPTION OF SCHEMATIC DIAGRAM

VOLTAGE MEASUREMENT CONDITION:

1. Voltages at test points are measured at the supply voltage of AC 230V. Signals are fed by a colour bar signal generator for servicing purpose and the above voltages are measured with a 20k ohm/V tester.

WAVEFORM MEASUREMENT CONDITION:

1. Waveforms at test points are observed at the supply voltage of AC 230V. Signals are fed by a colour bar signal generator for servicing purpose.

INDICATION OF RESISTOR & CAPACITOR:

RESISTOR

1. The unit of resistance "Ω" is omitted. (K=kΩ=1000 Ω, M=MΩ).
2. All resistors are ± 5%, unless otherwise noted. (J= ± 5%, F= ± 1%, D= ± 0.5%)
3. All resistors are 1/16W, unless otherwise noted.
4. All resistors are Carbon type, unless otherwise noted.
   Ⓒ: Solid Ⓦ: Cement
   Ⓢ: Oxide Film Ⓣ: Special
   Ⓝ: Metal Coating

CAPACITOR

1. All capacitors are μF, unless otherwise noted. (P=pF=μμF).
2. All capacitors are 50V, unless otherwise noted.
3. All capacitors are Ceramic type, unless otherwise noted.
   (ML): Mylar (TA): Tantalum
   (PF): Polypro Film (ST): Styrol

CAUTION:
This circuit diagram is original one, therefore there may be a slight difference from yours.

SAFETY NOTES:

1. DISCONNECT THE AC PLUG FROM THE AC OUTLET BEFORE REPLACEING PARTS.
2. SEMICONDUCTOR HEAT SINKS SHOULD BE REGARDED AS POTENTIAL SHOCK HAZARDS WHEN THE CHASSIS IS OPERATING.

IMPORTANT SAFETY NOTICE:

PARTS MARKED WITH " ⚠ ( ) ARE IMPORTANT FOR MAINTAINING THE SAFETY OF THE SET. BE SURE TO REPLACE THESE PARTS WITH SPECIFIED ONES FOR MAINTAINING THE SAFETY AND PERFORMANCE OF THE SET.

BESCHREIBUNG DES SCHEMATISCHEN SCHALTPLANS

SPANNUNGSMESSUNGEN:

1. Spannungen an den Prüfpunkten werden bei einer Netzspannung von 230V gemessen, Signale werden für die Wartung mit einem Farbbalken-Signal generator zugeführt, und Spannungen werden mit einem Meßinstrument (20 kΩ/V) ermittelt.

SIGNALFORMMESSUNGEN:

1. Die Wellenformen an den Testpunkten werden bei einer Netzspannung von 230V verfolgt. Signale werden für die Wartung mit einem Farbbalken-Signal generator zugeführt.

BEZEICHNUNG DES WIDERSTANDS UND KONDENSATORS:

WIDERSTAND

1. Die Widerstandseinheit "Ω" wird weggelassen. (K=kΩ=1000 Ω, M=MΩ).
2. Alle Widerstände haben ± 5%, sofern nicht anders angegeben. (J= ± 5%, F= ± 1%, D= ± 0.5%)
3. Alle Widerstände haben 1/16W, sofern nicht anders angegeben.
4. Alle Widerstände sind Kohletyp, sofern nicht anders angegeben.
   Ⓒ: Fest Ⓦ: Zement
   Ⓢ: Oxidefilm Ⓣ: Spezial
   Ⓝ: Metallüberzug

KONDENSATOR

1. Die Kapazitätseinheit ist μF, sofern nicht anders angegeben. (P=pF=μμF).
2. Alle Kondensatoren haben 50V, sofern nicht anders angegeben.
3. Alle Kondensatoren sind Keramiktyp, sofern nicht anders angegeben.
   (ML): Mylar (TA): Tantal
   (PF): Polyprofilm (ST): Styrol

ACHTUNG:
bei diesem Schaltplan handelt es sich um den ursprünglichen. Esönnen daher geringfügige Unterschiede zu dem Ihrem bestehen.

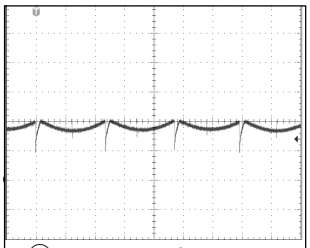
SICHERHEITSANMERKUNGEN:

1. VOR DEM AUSWECHSELN VON TEILEN MUSS UNBEDINGT NETZSTECKER AUS DER NETZSTECKDOSE GEZOGEN WERDEN.
2. DIE WARMEABLEITER DER HALBLEITER SOLLTEN BEIM BETRIEB DES CHASSIS ALS MÖGLICHE URSACHEN VON GEFÄHRLICHEN ELEKTRISCHEN SCHLÄGEN BETRACHTET WERDEN.

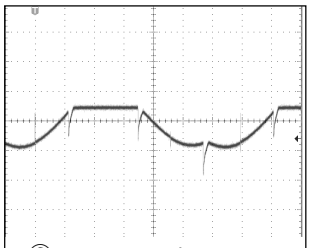
WICHTIGE SICHERHEITSANMERKUNGEN:

MIT "⚠ ( )BEZEICHNETEN TEILE SIND BESONDERS WICHTIG FÜR DIE AUFRECHTERHALTUNG DER SICHERHEIT . BEIM WECHDIESER TEILE SOLLTEN DIE VORGESCHRIEBENEN TEILE IMMER VERWENDET WERDEN, UM SOWOHL DIE SICHERHEIT ALS AUCH DIE LEISTUNG DES GERÄTES AUFRECHTZUERHALTEN.

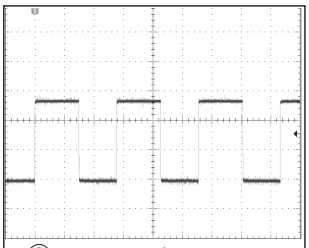
WAVEFORMS



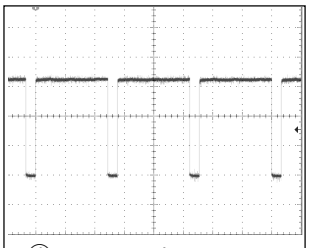
① SC3101 1-pin
(INPUT CWCTR)
H : 200µ sec/div
V : 6.90V/div



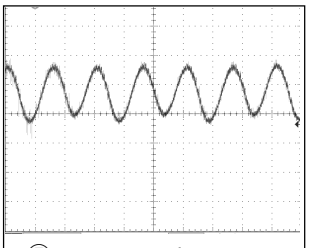
② SC3101 3-pin
(INPUT CWY2)
H : 200µ sec/div
V : 6.90V/div



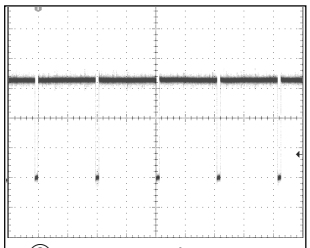
③ P9002 1-pin
(FORMAT LAMPEN)
H : 2m sec/div
V : 1.64V/div



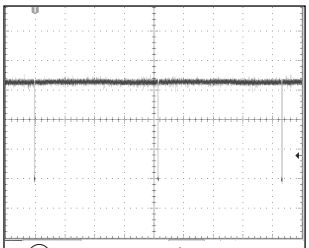
④ P9003 2-pin
(FORMAT CWINDEX)
H : 2m sec/div
V : 1.64V/div



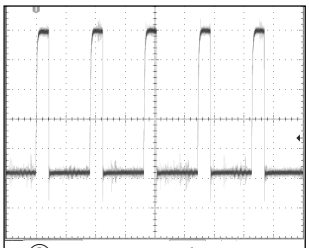
⑤ SC9001 3-pin
(FORMAT CLKIN)
H : 400µ sec/div
V : 870mV/div



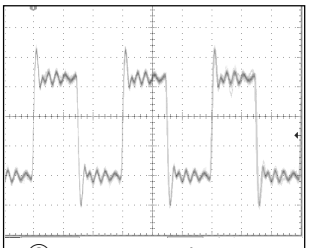
⑥ SC9001 5-pin
(FORMAT HSYNC)
H : 10µ sec/div
V : 880mV/div



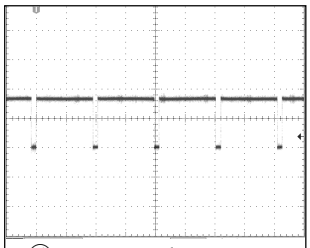
⑦ SC9001 7-pin
(FORMAT VSYNC)
H : 4m sec/div
V : 880mV/div



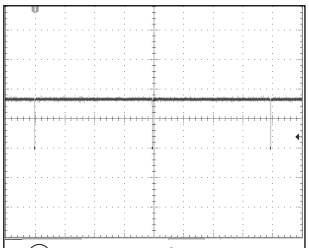
⑧ SC9002 17-pin
(FORMAT MTRSICLK)
H : 2µ sec/div
V : 1.44V/div



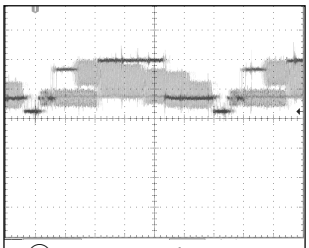
⑨ SC9002 25-pin
(FORMAT MTRCLK)
H : 40m sec/div
V : 1.44V/div



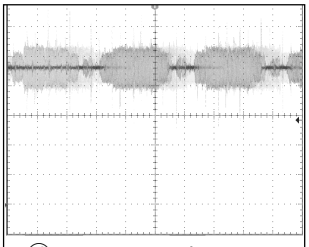
⑩ IC8363 7-pin
(PC-BOARD PCH)
H : 10µ sec/div
V : 840mV/div



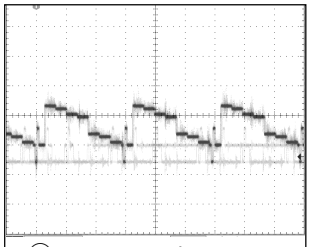
⑪ IC8363 1-pin
(PC-BOARD PCV)
H : 4m sec/div
V : 840mV/div



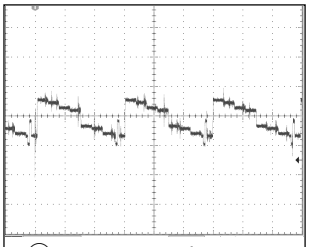
⑫ SC3001 3-pin
(INPUT VIDEO)
H : 10µ sec/div
V : 180mV/div



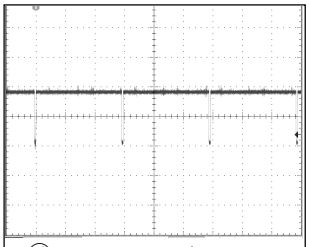
⑬ SC3001 11-pin
(INPUT S-C)
H : 20µ sec/div
V : 1.44V/div



⑭ SC3001 8-pin
(INPUT PCGIN2)
H : 10µ sec/div
V : 180mV/div

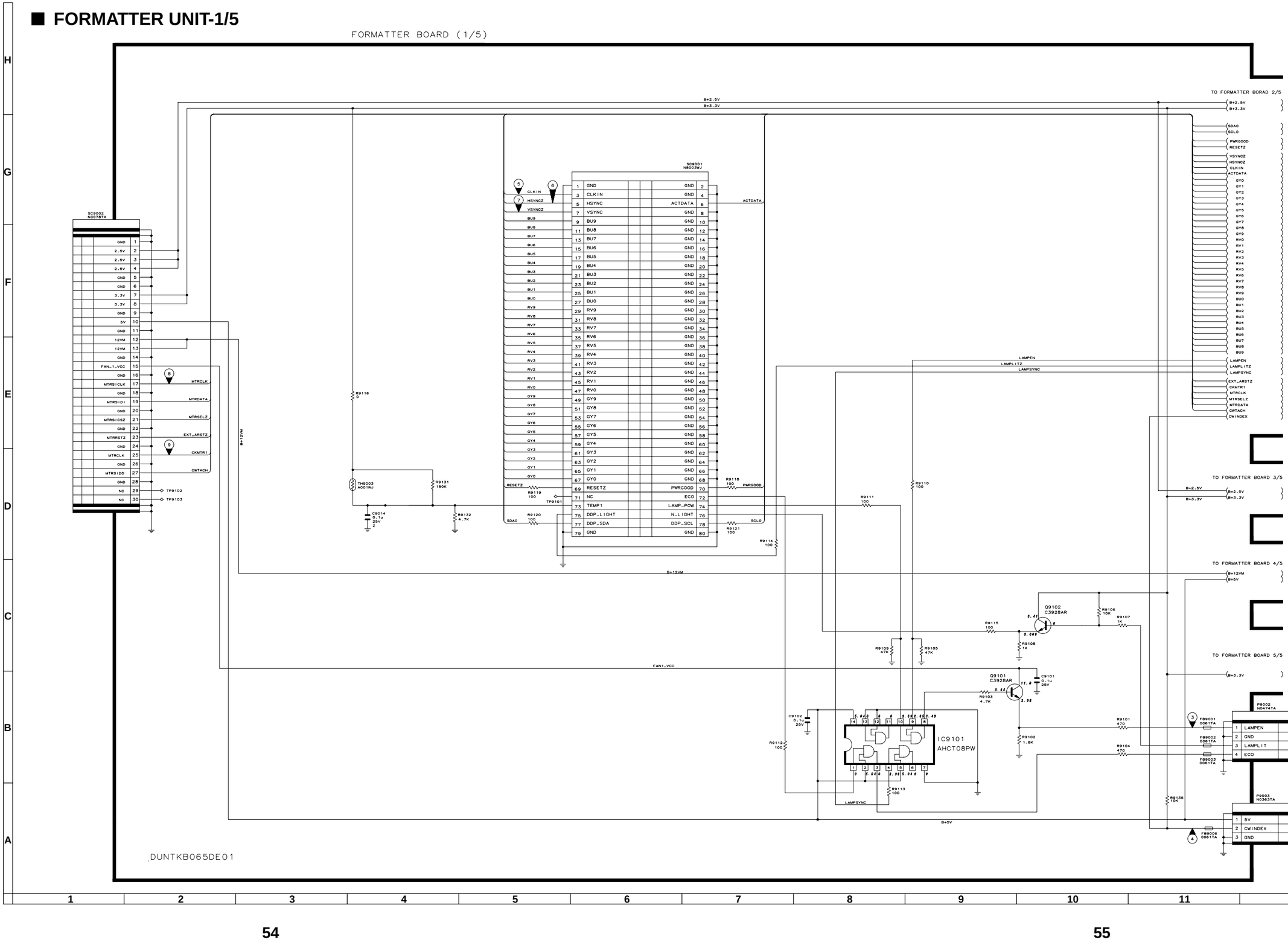


⑮ SC3001 20-pin
(INPUT GLPF)
H : 10µ sec/div
V : 230mV/div

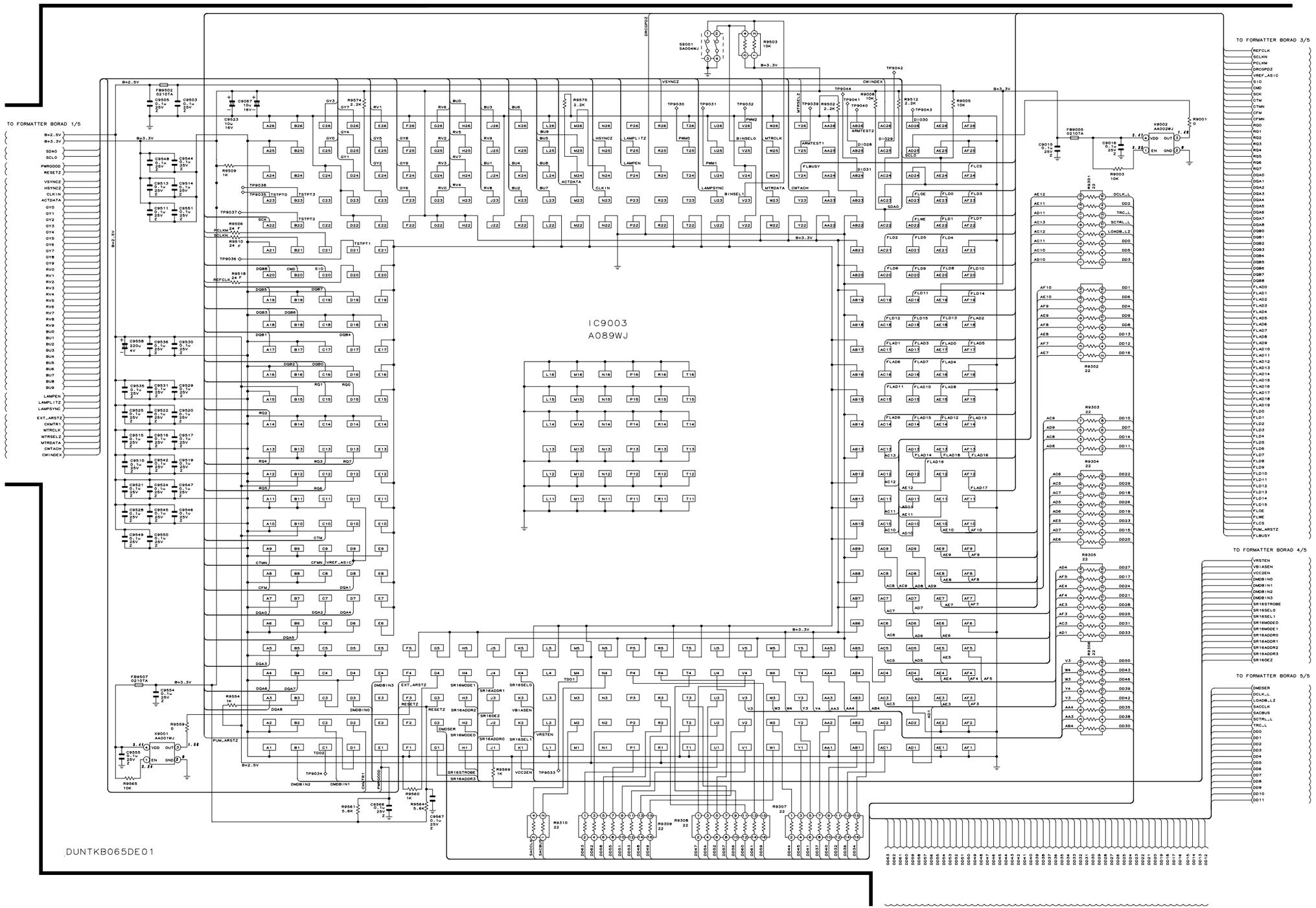


⑯ SC3001 30-pin
(INPUT C-SYNC)
H : 10µ sec/div
V : 840mV/div

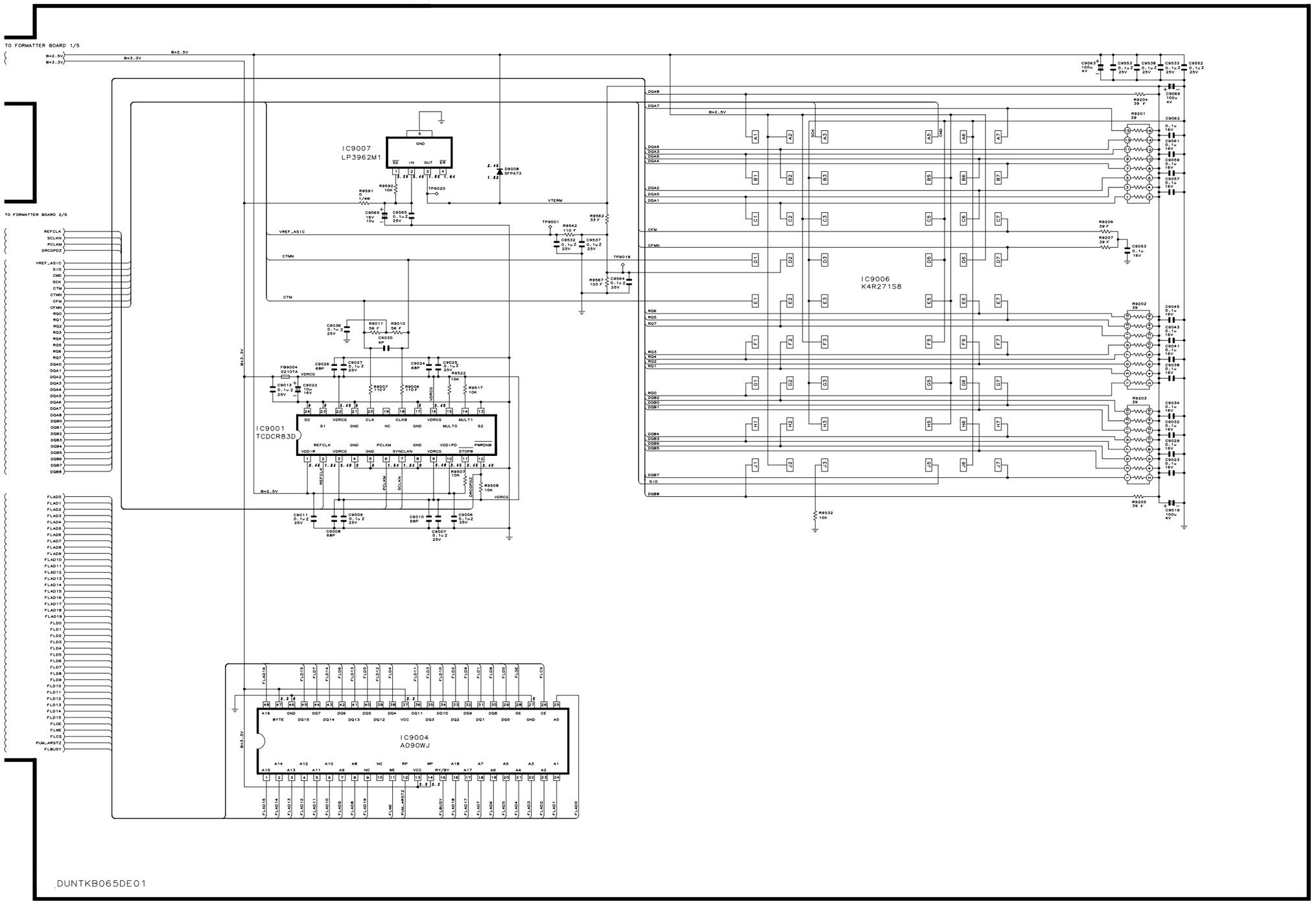
■ FORMATTER UNIT-1/5



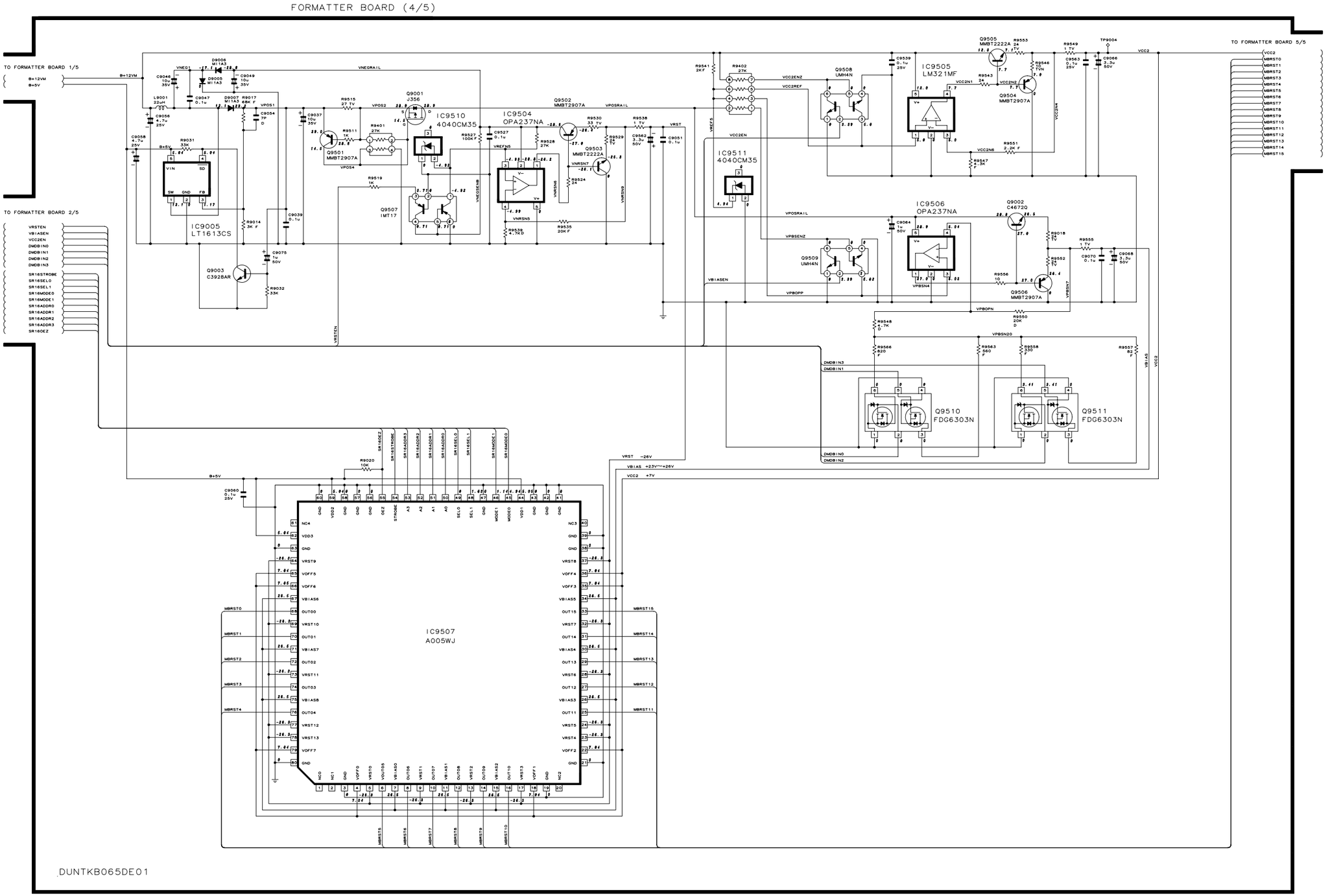
■ FORMATTER UNIT-2/5



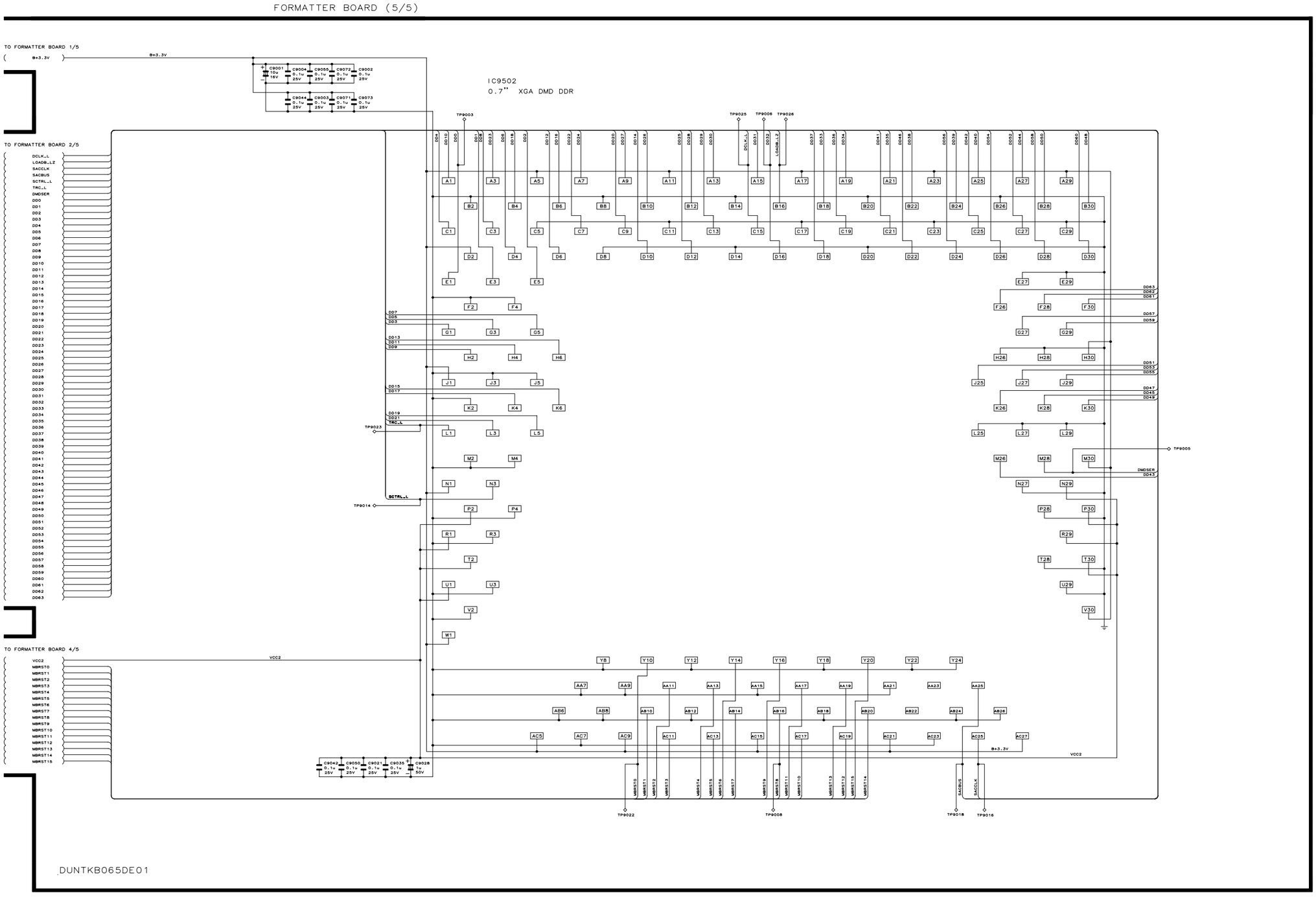
■ FORMATTER UNIT-3/5



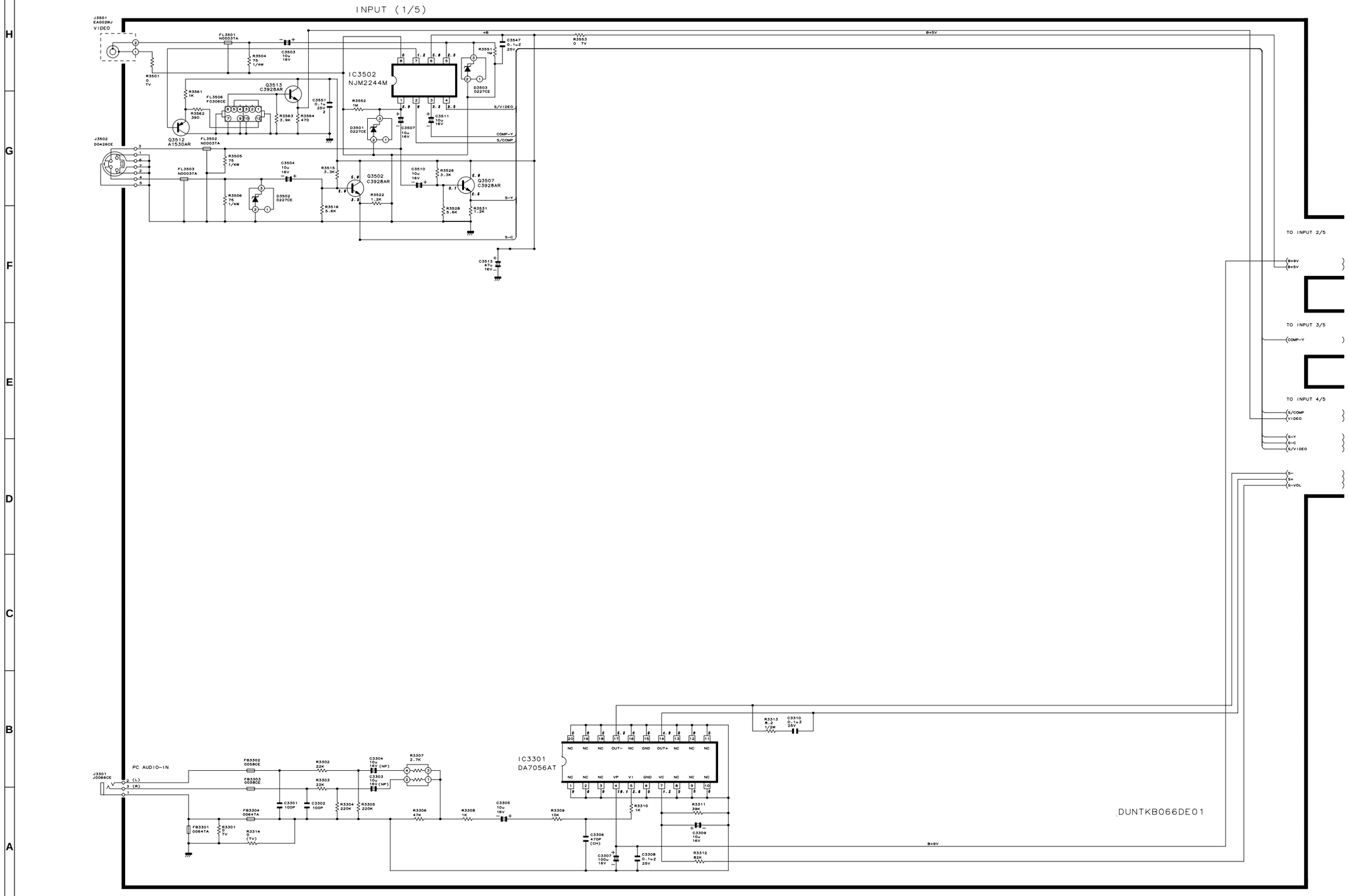
■ FORMATTER UNIT-4/5



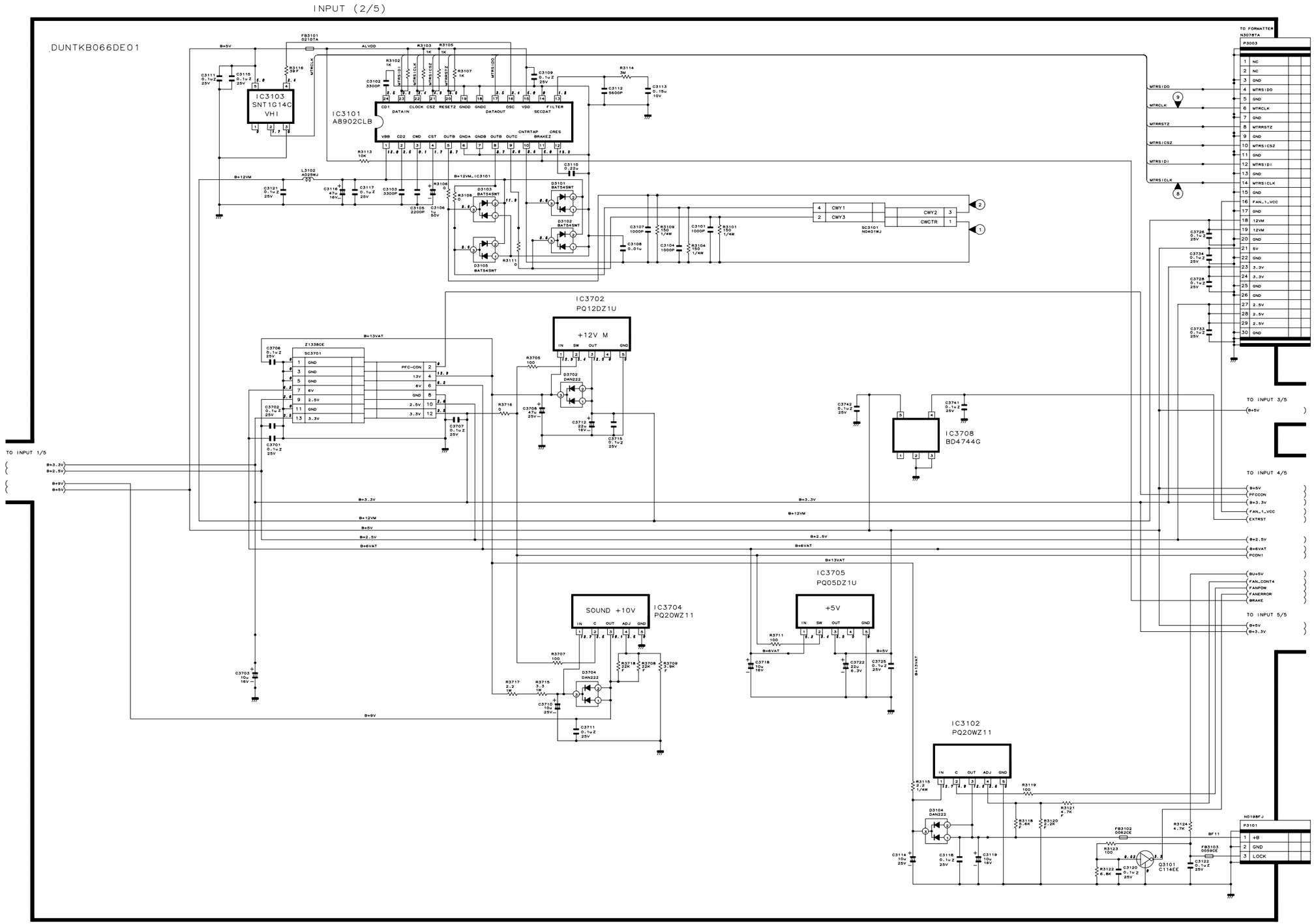
■ FORMATTER UNIT-5/5



■ INPUT UNIT-1/5



■ INPUT UNIT-2/5



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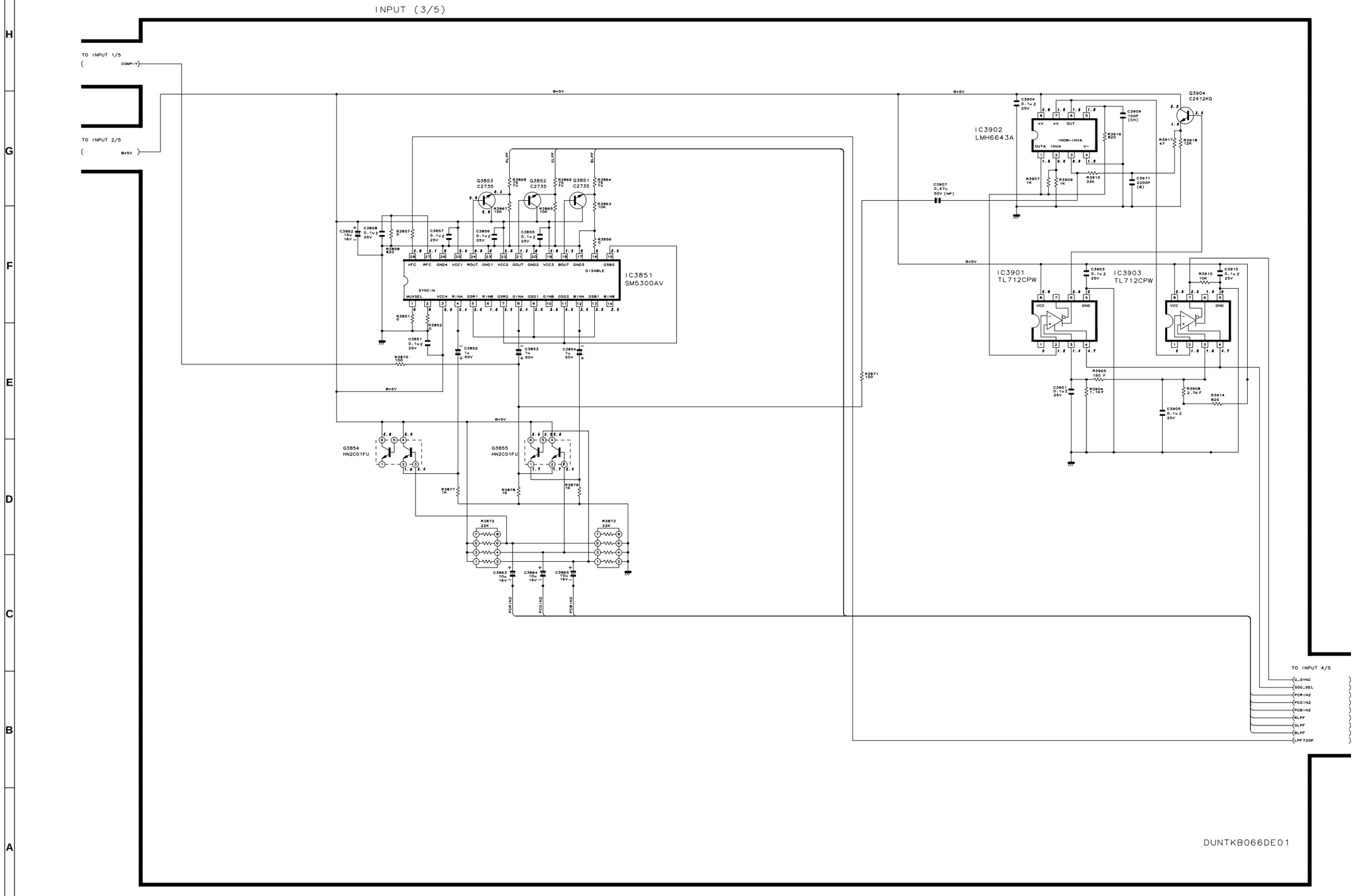
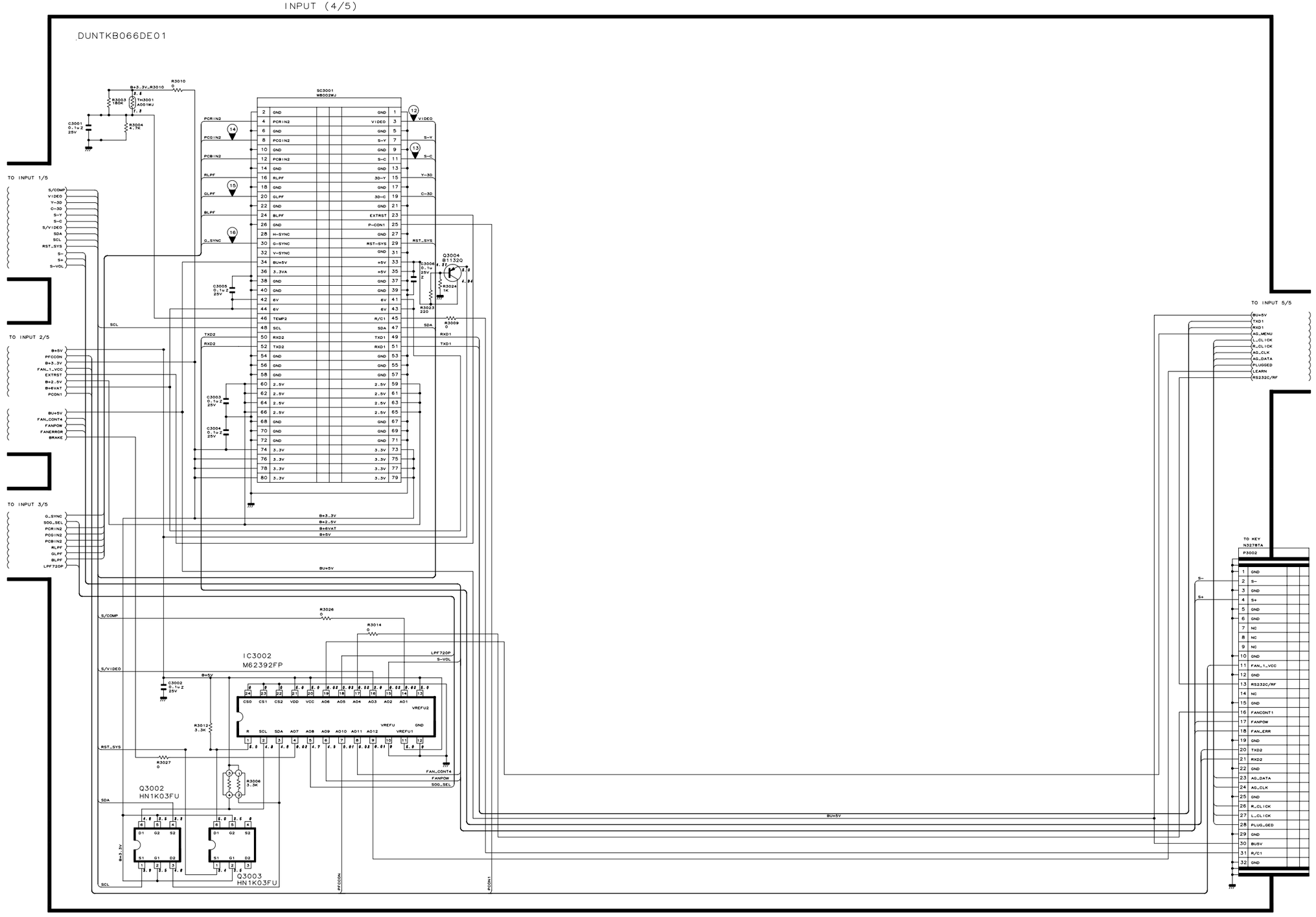
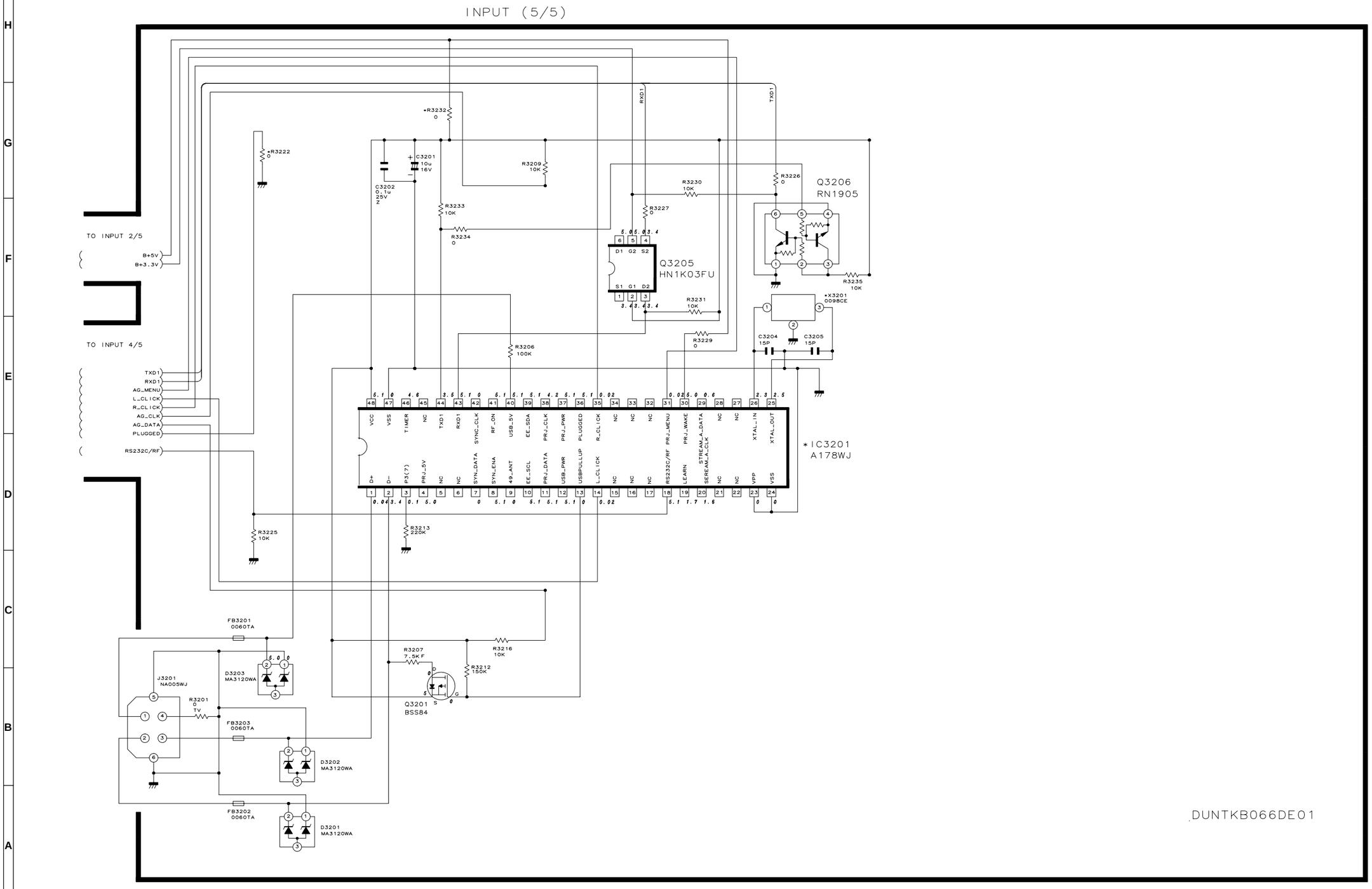


■ INPUT UNIT-4/5



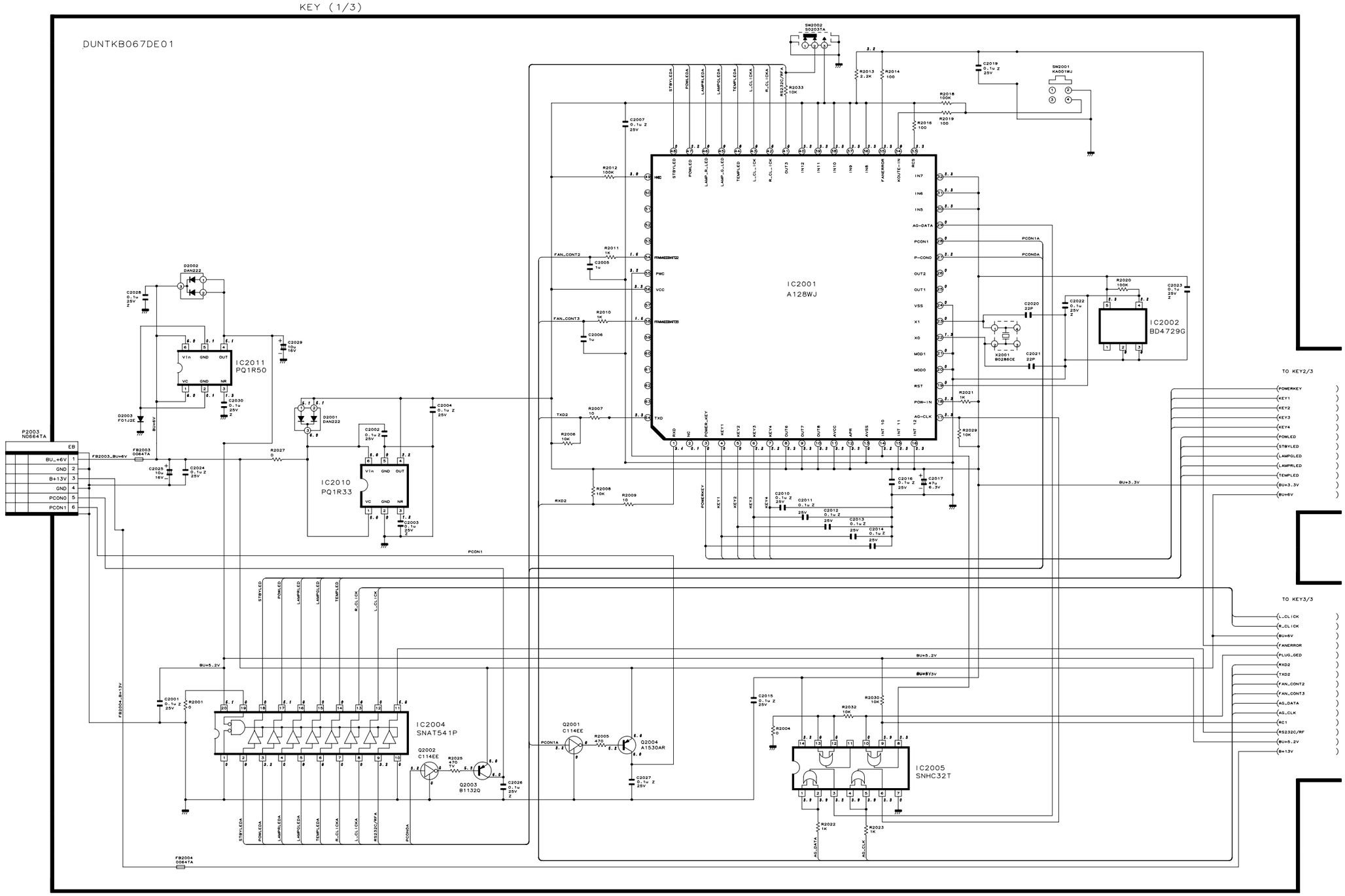
■ INPUT UNIT-5/5



■ KEY UNIT-1/3

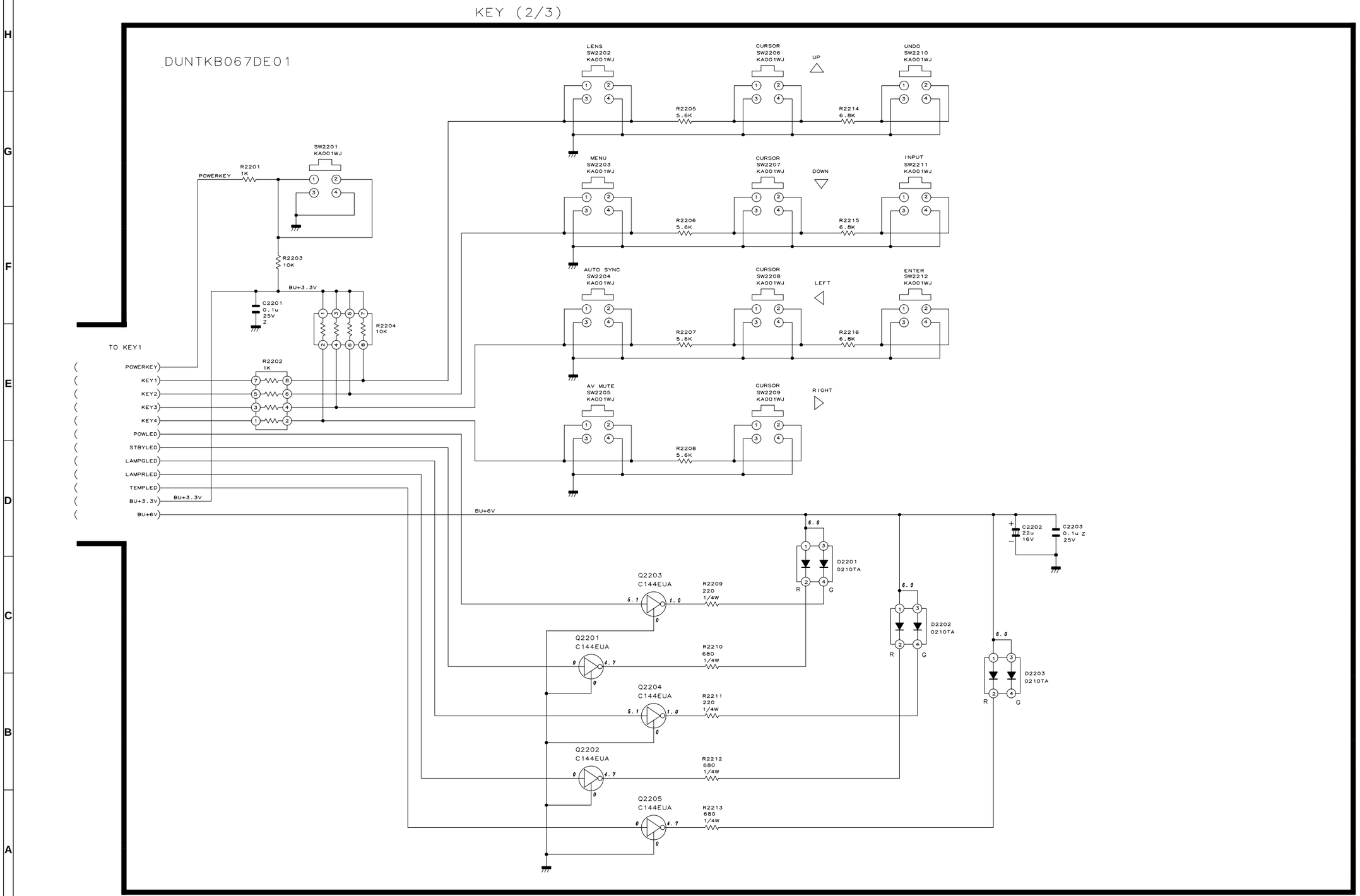
KEY (1/3)

DUNTKB067DE01



1	2	3	4	5	6	7	8	9	10	11	12

■ KEY UNIT-2/3


KEY (2/3)
DUNTKB067DE01
LENS SW2202 KA001WJ
CURSOR SW2206 KA001WJ
UP
UNDO SW2210 KA001WJ
R2205 5.6K
R2214 6.8K
MENU SW2203 KA001WJ
CURSOR SW2207 KA001WJ
DOWN
INPUT SW2211 KA001WJ
R2206 5.6K
R2215 6.8K
AUTO SYNC SW2204 KA001WJ
CURSOR SW2208 KA001WJ
LEFT
ENTER SW2212 KA001WJ
R2207 5.6K
R2216 6.8K
AV MUTE SW2205 KA001WJ
CURSOR SW2209 KA001WJ
RIGHT
R2208 5.6K
SW2201 KA001WJ
POWERKEY
R2201 1K
R2203 10K
BU+3.3V
C2201 0.1u 25V Z
R2204 10K
TO KEY1
R2202 1K
POWRKEY
KEY1
KEY2
KEY3
KEY4
POWLED
STBYLED
LAMPGLED
LAMPRLED
TEMPLED
BU+3.3V
BU+3.3V
BU+6V
BU+6V
C2202 22u 16V
C2203 0.1u Z 25V
D2201 0210TA
D2202 0210TA
D2203 0210TA
R
G
Q2203 C144EUA
R2209 220 1/4W
Q2201 C144EUA
R2210 680 1/4W
Q2204 C144EUA
R2211 220 1/4W
Q2202 C144EUA
R2212 680 1/4W
Q2205 C144EUA
R2213 680 1/4W

■ KEY UNIT-3/3

KEY (3/3)

DUNTKB067DE01

TO KEY1/3

L_CLICK
R_CLICK
BU+6V
FANERROR
PLUG_GED
RXD2
TXD2
FAN_CONT2
FAN_CONT3
AG_DATA
AG_CLK
RC1
RS232C/RF
BU+5.2V
B+13V

N3271TA

P2001	KY
GND	1
S−	2
GND	3
S+	4
GND	5
GND	6
NC	7
NC	8
NC	9
GND	10
FAN_1_VCC	11
GND	12
RS232C/RF	13
NC	14
GND	15
FAN_CONT1	16
FANPOW	17
FAN_ERR	18
GND	19
TXD2	20
RXD2	21
GND	22
AG_DATA	23
AG_CLK	24
GND	25
R_CLICK	26
L_CLICK	27
PLUG GED	28
GND	29
BU+5.2V	30
R/C1	31
GND	32

C2101 0.1uZ 25V

IC2101 BA00ASFP
IC2102 BA00ASFP
IC2103 BA00ASFP
IC2104 BA00ASFP
GND CTL VCC OUT C
4.9 13.7 11.6 7.3

R2113 100
R2111 2.2 1/4W
BF23
D2104 DAN202K
C2108 33u 25V
R2121 8.2KF
R2114 3.3K F
R2117 1K F
C2110 0.1uZ 25V
C2115 100u 16V

R2134 0
D2102 DAN202K
D2103 DAN202K
Q2101 C114EE
3.3 0
C2104 0.1uZ 25V
R2108 6.8K
R2109 100
R2124 0
R2110 4.7K
6.0

C2111 0.1uZ 25V
C2112 0.1uZ 25V

R2101 100
R2103 2.2 1/4W
D2101 DAN202K
C2103 33u 25V
R2106 8.2KF
R2104 4.7K F
R2105 1K F
C2105 0.1uZ 25V
C2106 100u 16V
R2125 0

FAN_1_VCC

R2132 100
R2126 2.2 1/4W
C2117 33u 25V
D2106 DAN202K
R2133 0
R2130 8.2KF
R2127 3.3K F
R2128 1K F
C2118 0.1uZ 25V
C2119 100u 16V

R2115 100
R2112 2.2 1/4W
BF33
D2105 DAN202K
C2109 33u 25V
R2122 8.2KF
R2116 4.7K F
R2120 1K F
C2113 0.1uZ 25V
C2116 100u 16V
C2120 0.1uZ 25V
C2114 0.1uZ 25V

FB2101 0064TA BF21
FB2102 0059CE
FB2103 0064TA
FB2104 0059CE
FB2105 0064TA BF31
FB2106 0059CE
FB2107 0064TA
FB2108 0064TA
FB2109 0064TA
FB2110 0059CE
BF32

N0464TA F1 P2101
1 +B
2 GND
3 N.C
4 LOCK
EXHAUST FAN

N0364TA F2 P2102
1 +B
2 GND
3 LOCK
VENTILATE FAN

N0363TA F5 P2104
1 +B
2 GND
3 LOCK
EXHAUST FAN

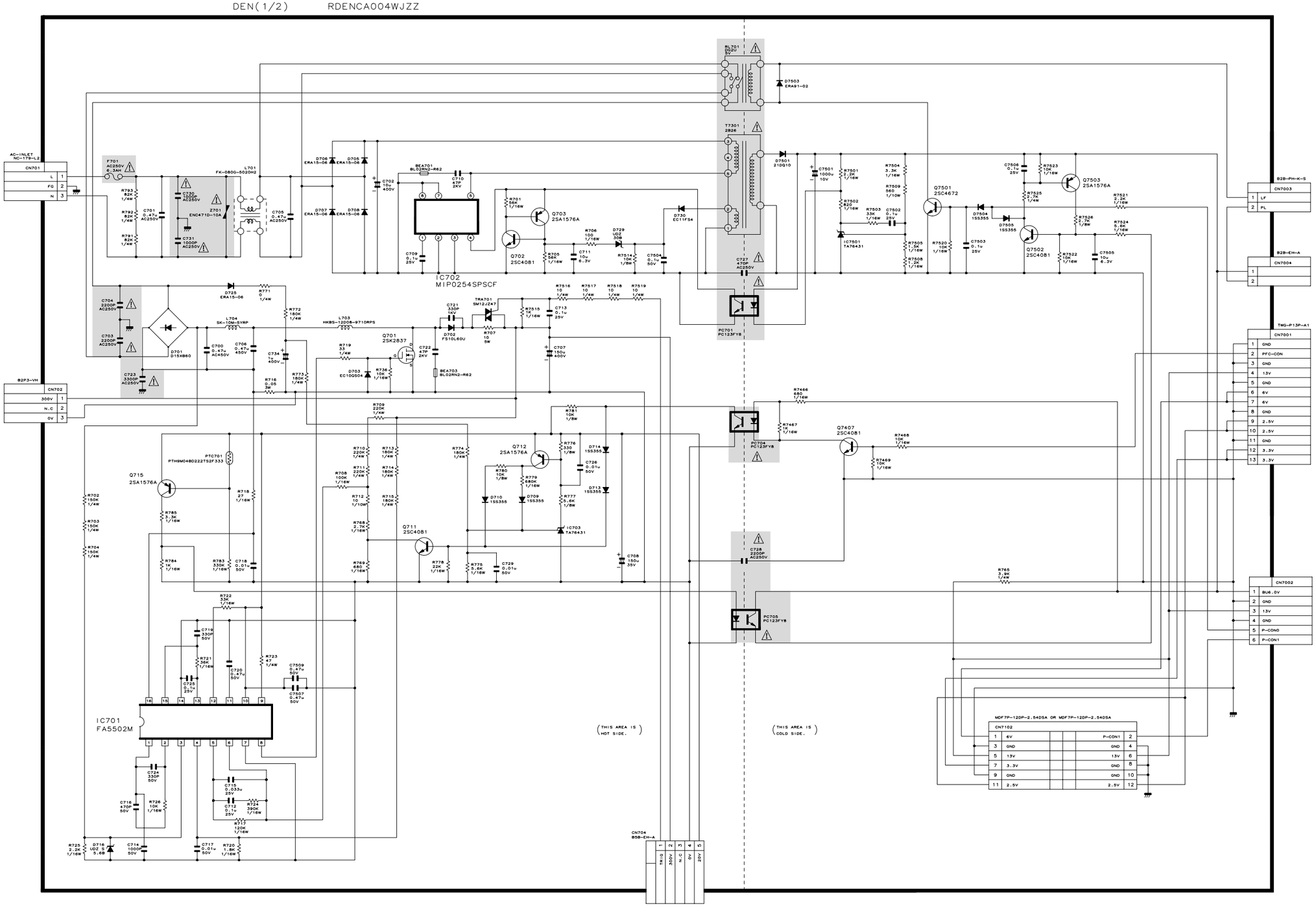
N0463TA F3 P2103
1 +B
2 GND
3 N.C
4 LOCK
BALLAST FAN

N0264TA SP P2002
1 S+
2 S−
2W
OUT
RSP−ZA004WJN1

1	2	3	4	5	6	7	8	9	10	11	12

■ POWER UNIT

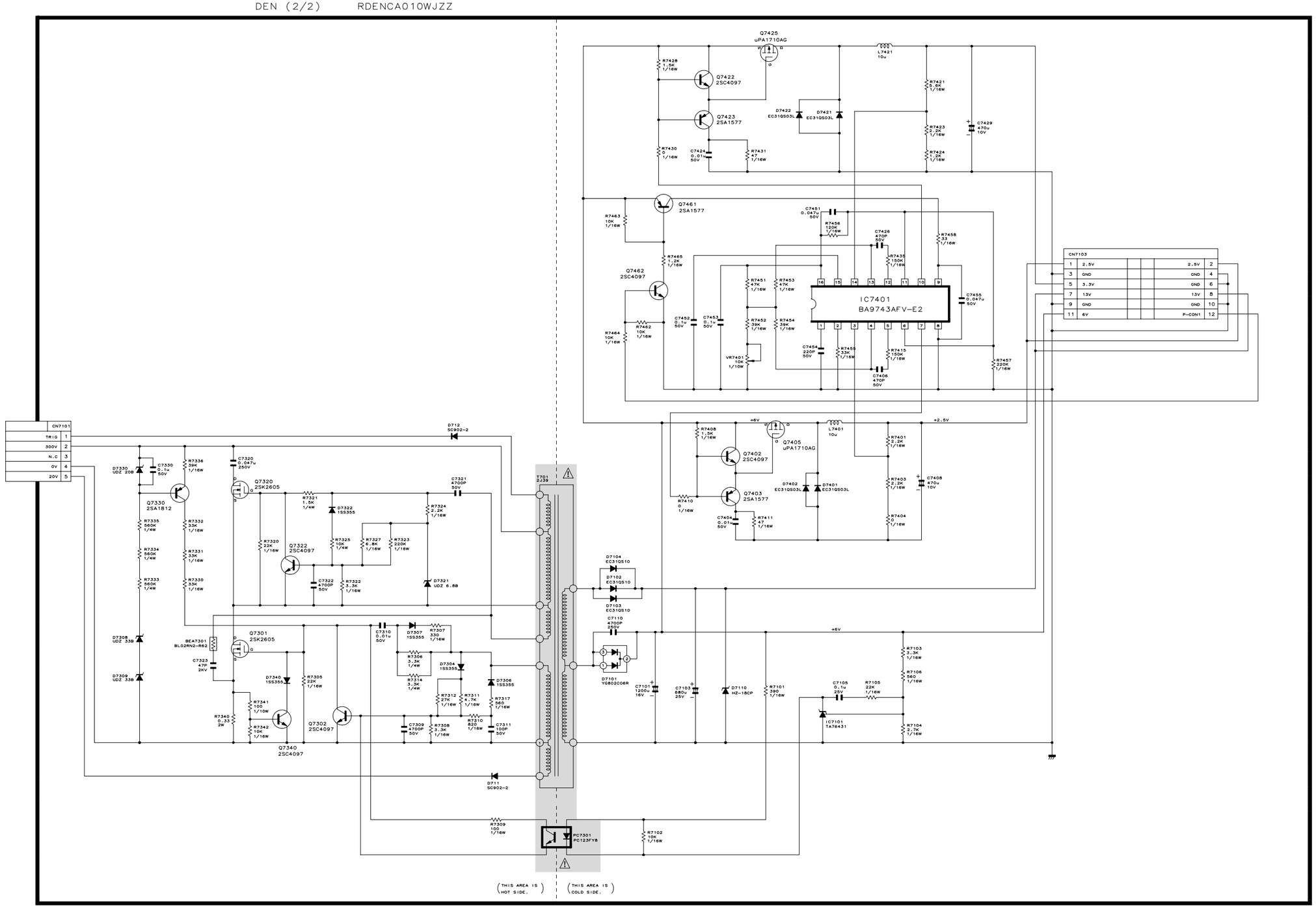
DEN(1/2)　　RDENCA004WJZZ



1	2	3	4	5	6	7	8	9	10	11	12

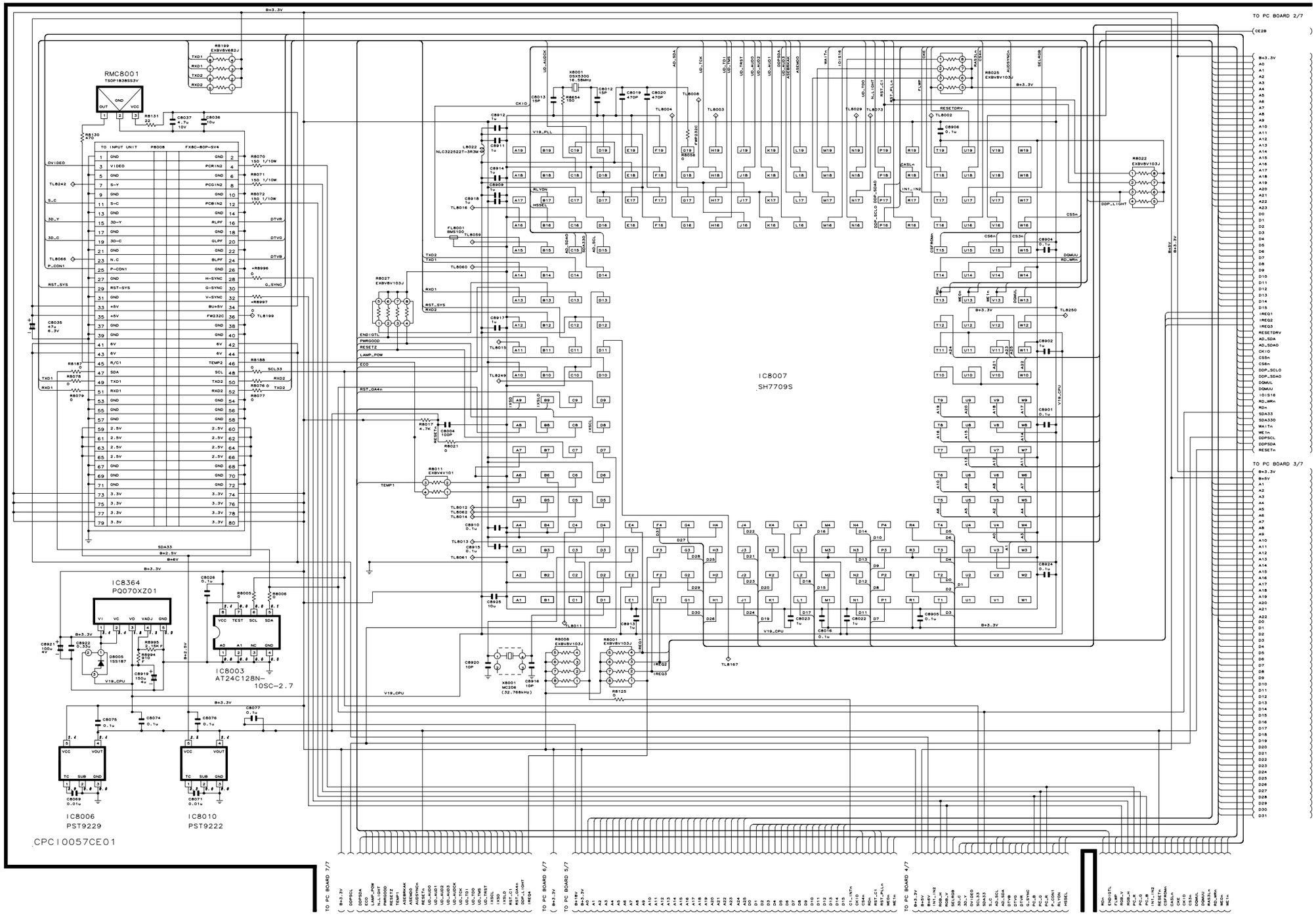
■ PFC UNIT

DEN (2/2) RDENCA010WJZZ

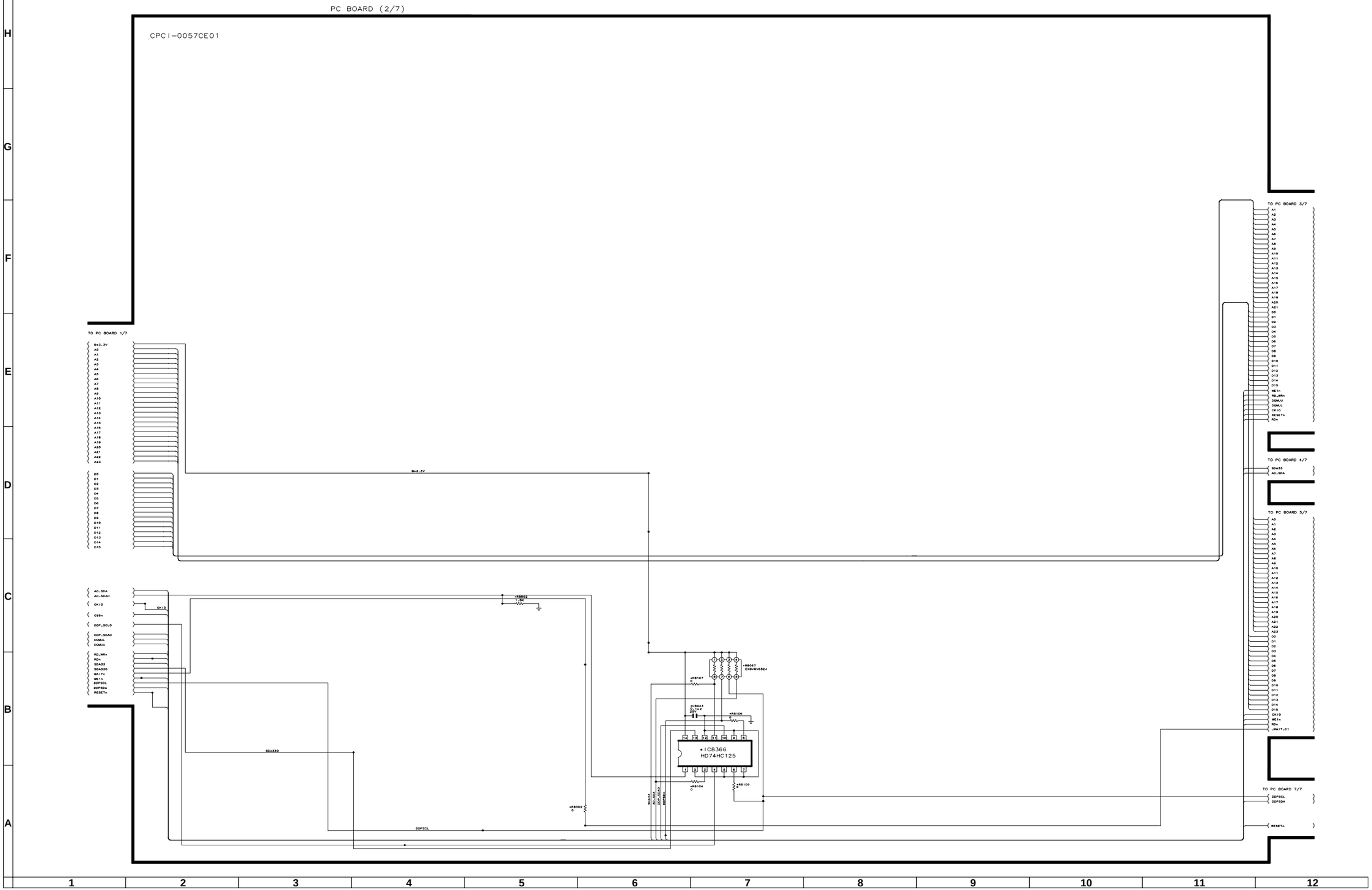


■ PC I/F UNIT-1/7

PC BOARD (1/7)

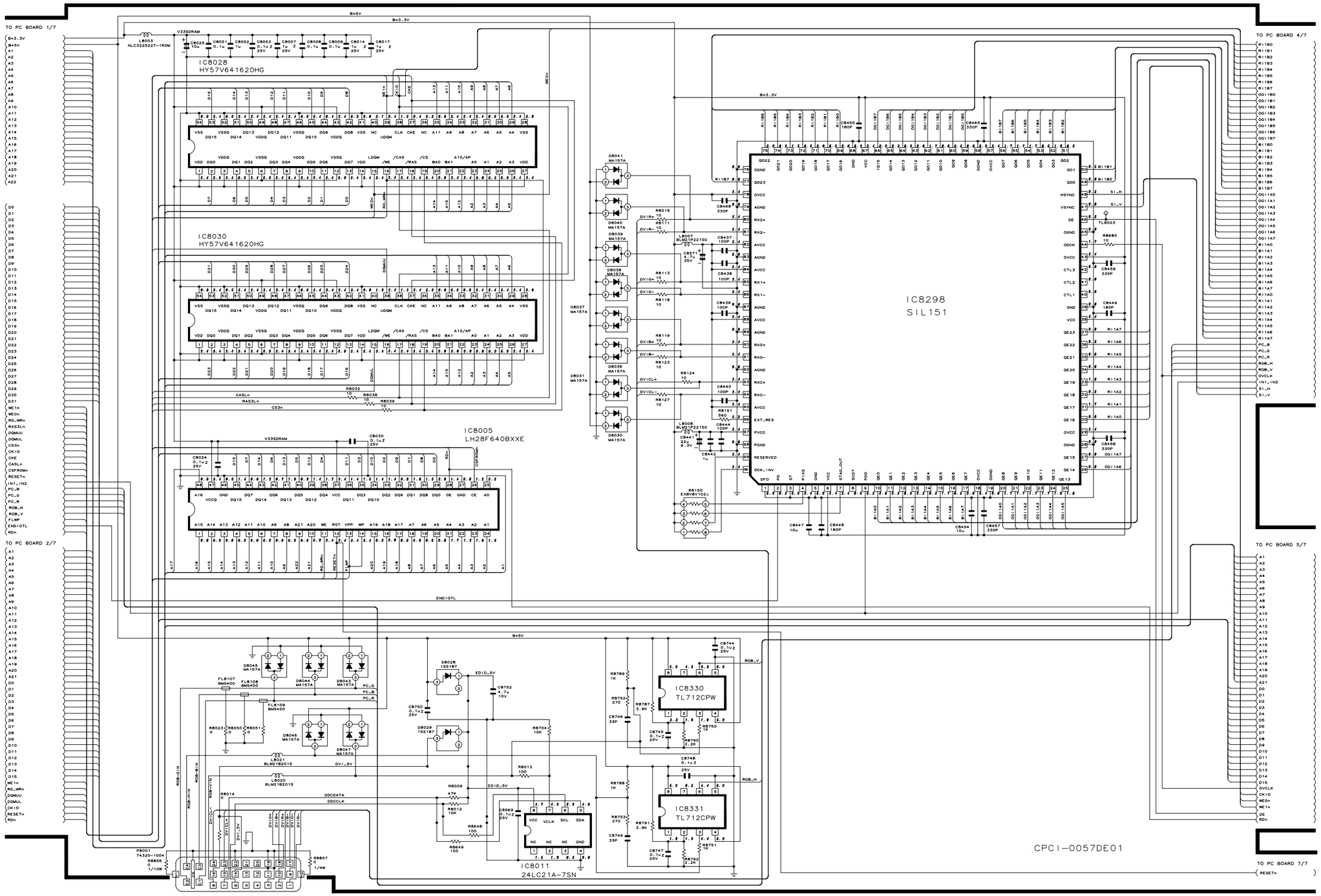


■ PC I/F UNIT-2/7


PC BOARD (2/7)
CPCI-0057CE01
TO PC BOARD 1/7
TO PC BOARD 3/7
TO PC BOARD 4/7
TO PC BOARD 5/7
TO PC BOARD 7/7
*IC8366
HD74HC125
SDA330
DDPSCL
RESETn

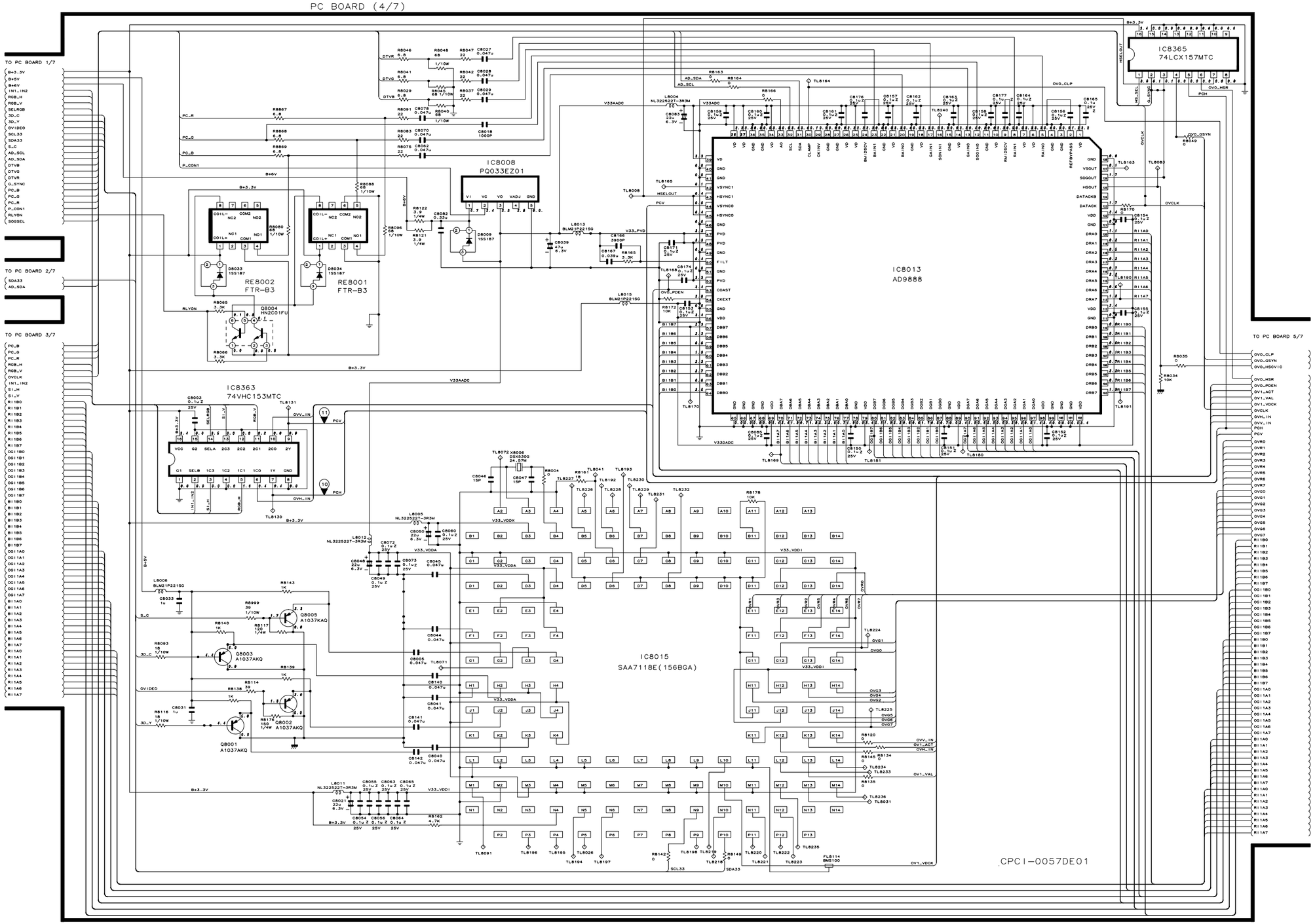
■ PC I/F UNIT-3/7

PC BOARD (3/7)



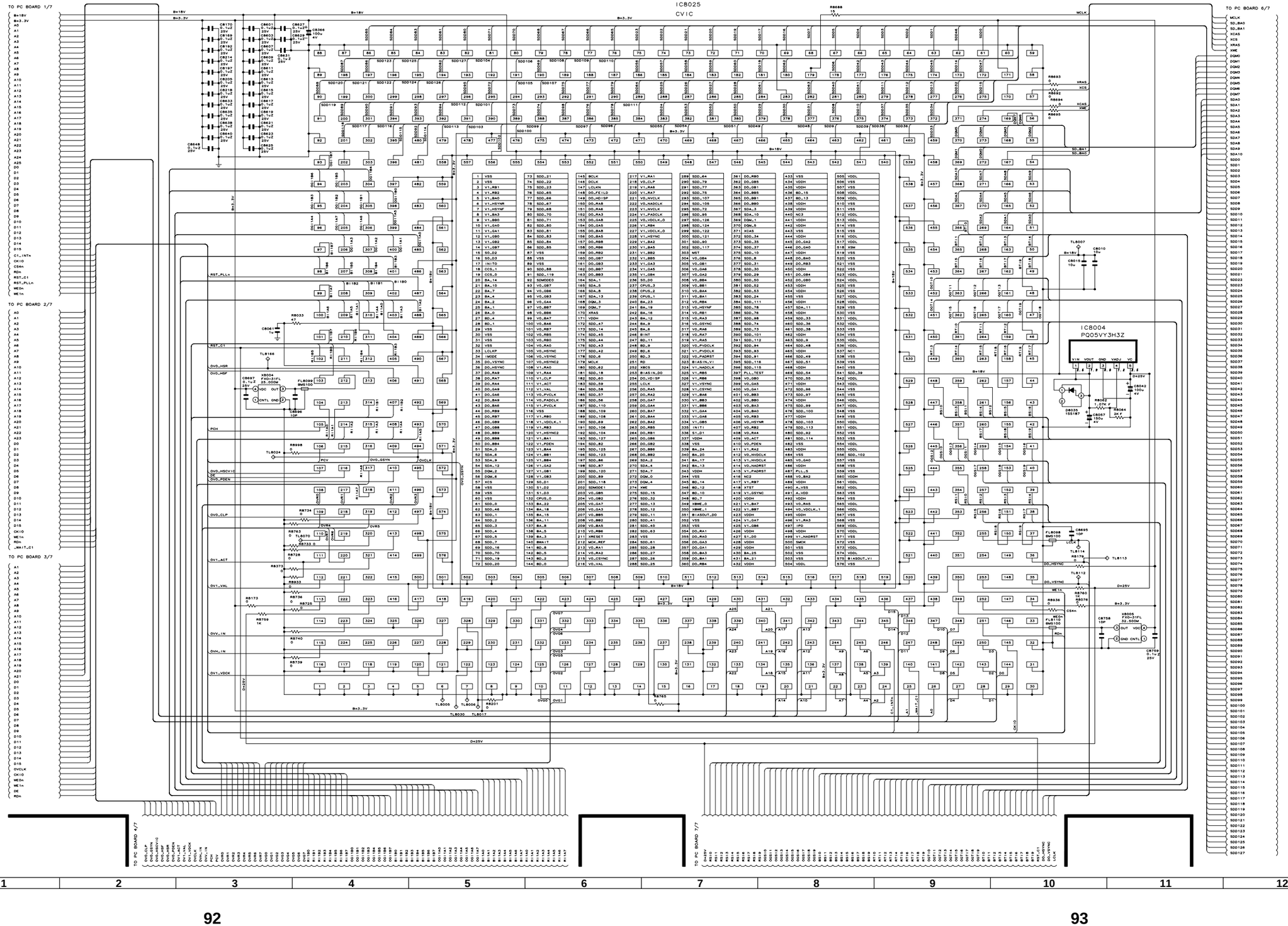
■ PC I/F UNIT-4/7

PC BOARD (4/7)



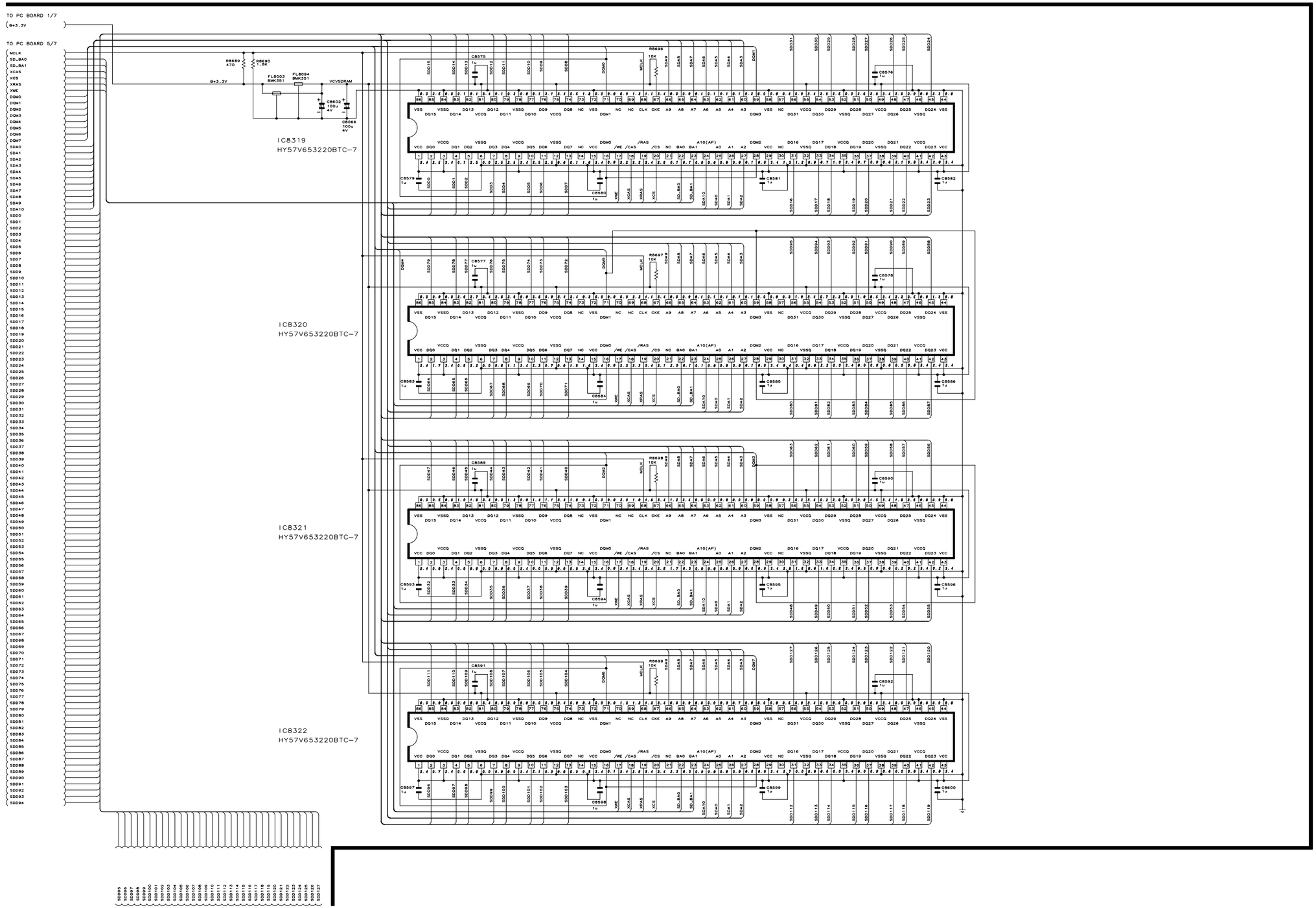
■ PC I/F UNIT-5/7

PC BOARD (5/7)

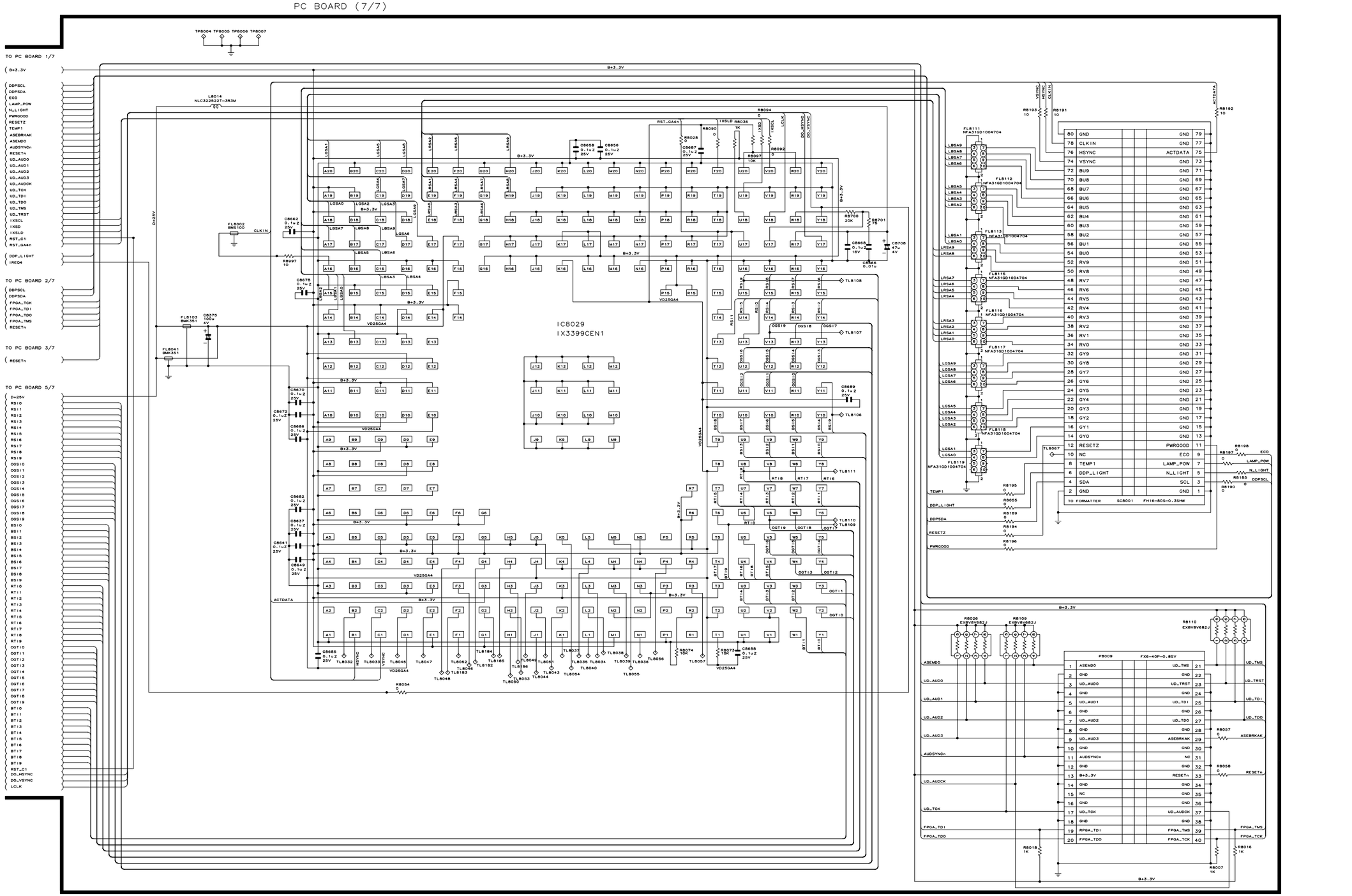


■ PC I/F UNIT-6/7

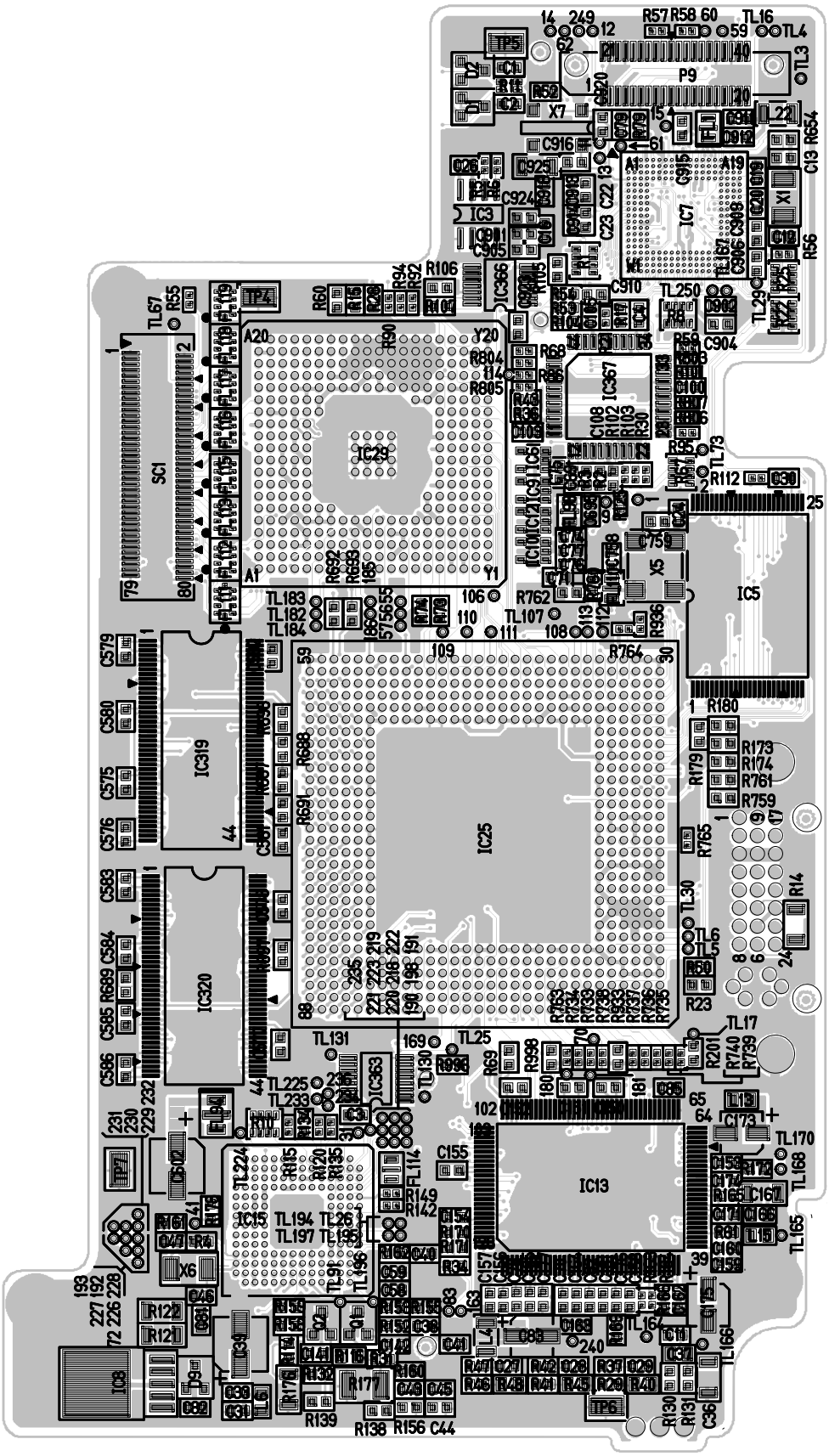
PC BOARD (6/7)



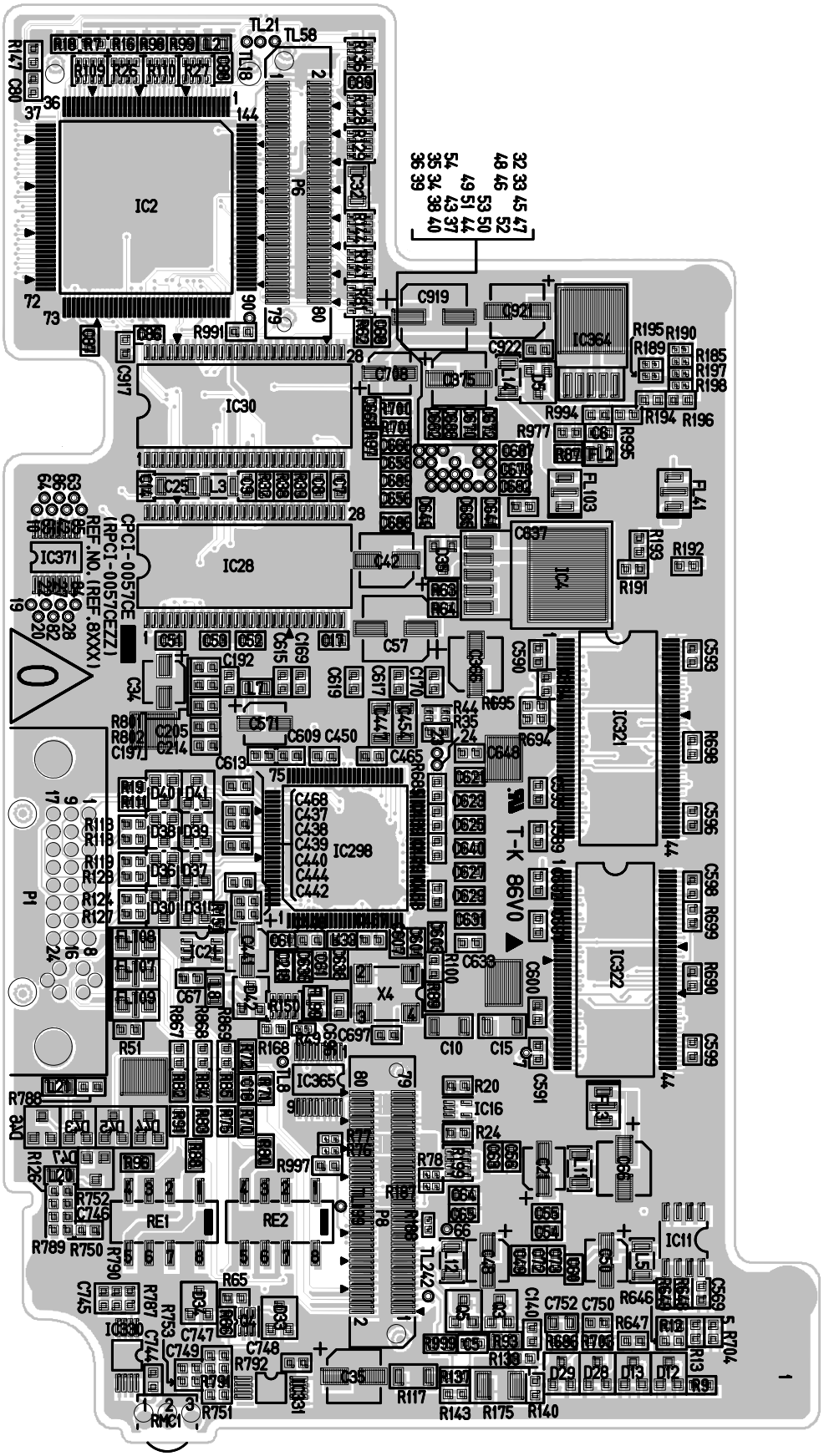
■ PC I/F UNIT-7/7


PC BOARD (7/7)
TO PC BOARD 1/7
TO PC BOARD 2/7
TO PC BOARD 3/7
TO PC BOARD 5/7
IC8029
IX3399CEN1
TO FORMATTER SC8001 FH16-80S-0.3SHW
FX6-40P-0.8SV

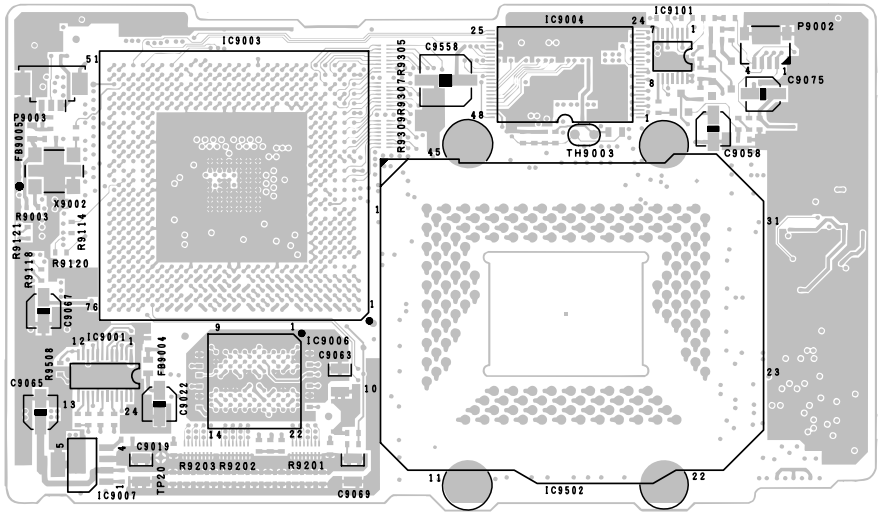
PRINTED WIRING BOARD ASSEMBLIES



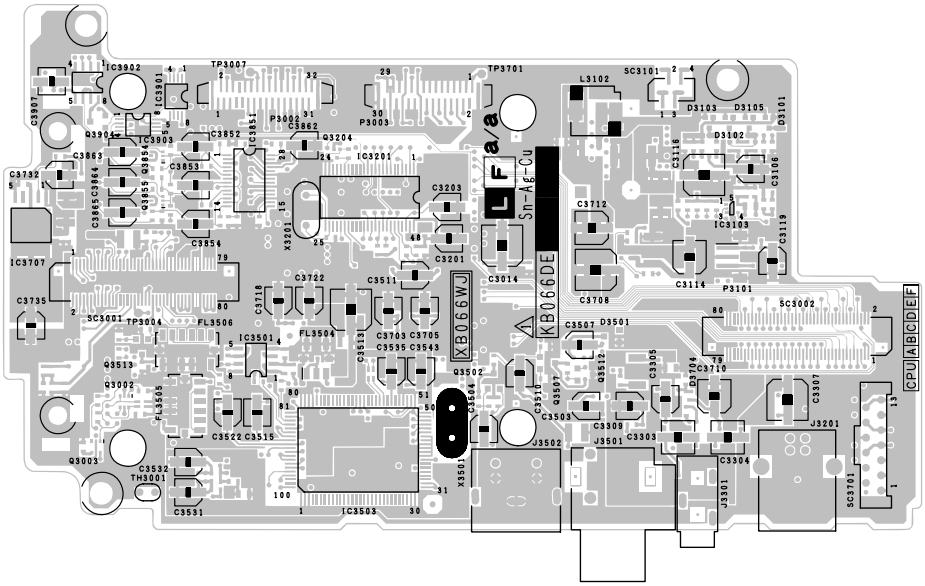
PC I/F Unit (Side-A)



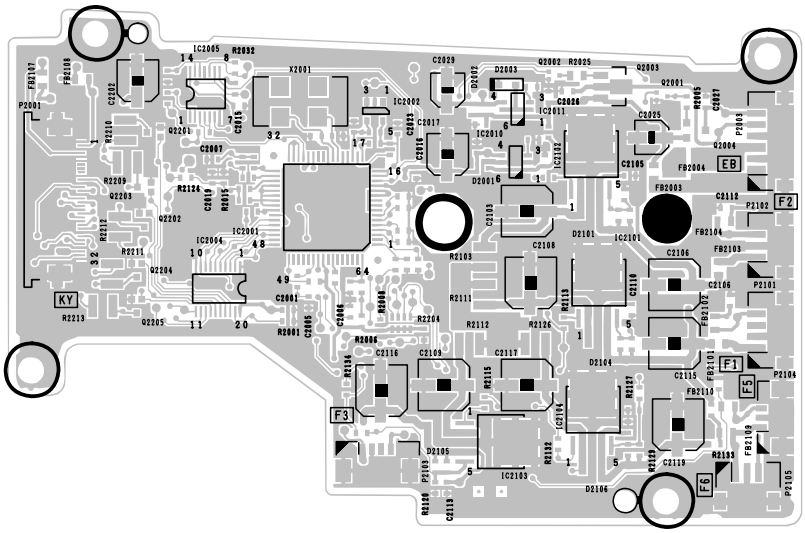
PC I/F Unit (Side-B)



FORMATTER Unit (Side-A)

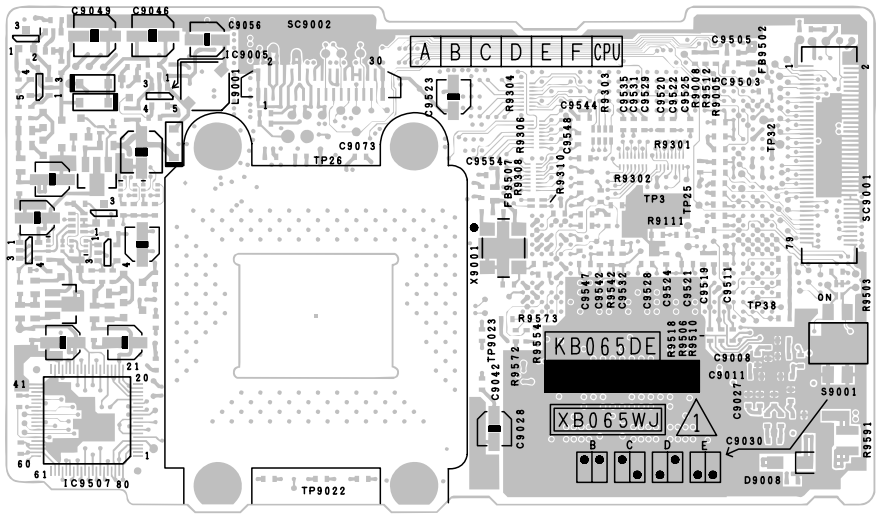


INPUT Unit (Side-A)

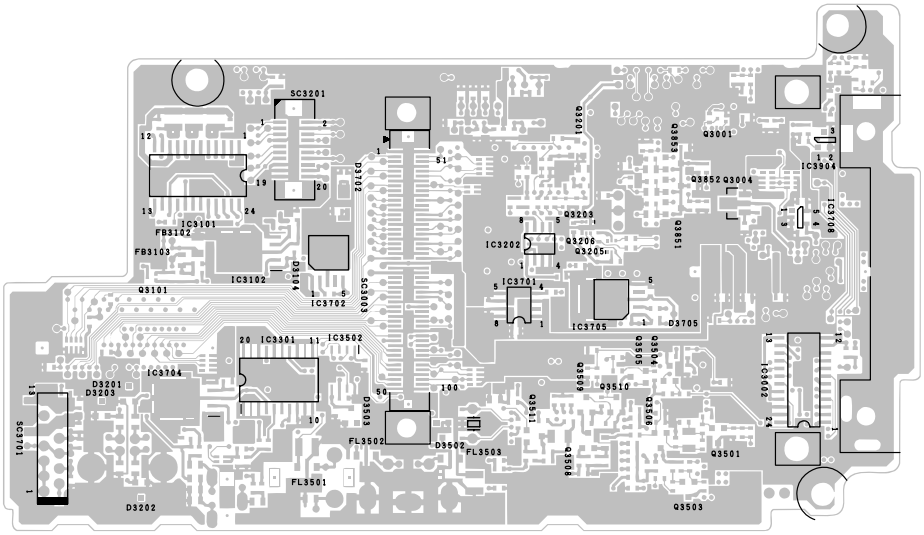


KEY Unit (Side-A)

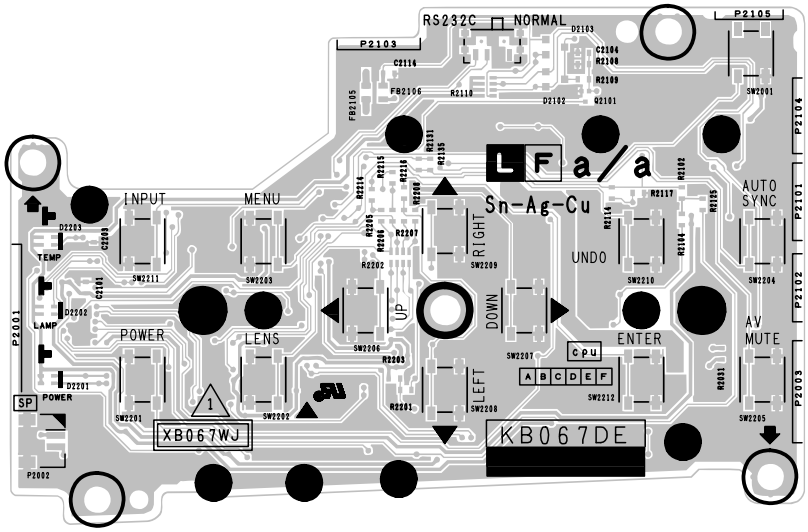
1	2	3	4	5	6



FORMATTER Unit (Side-B)

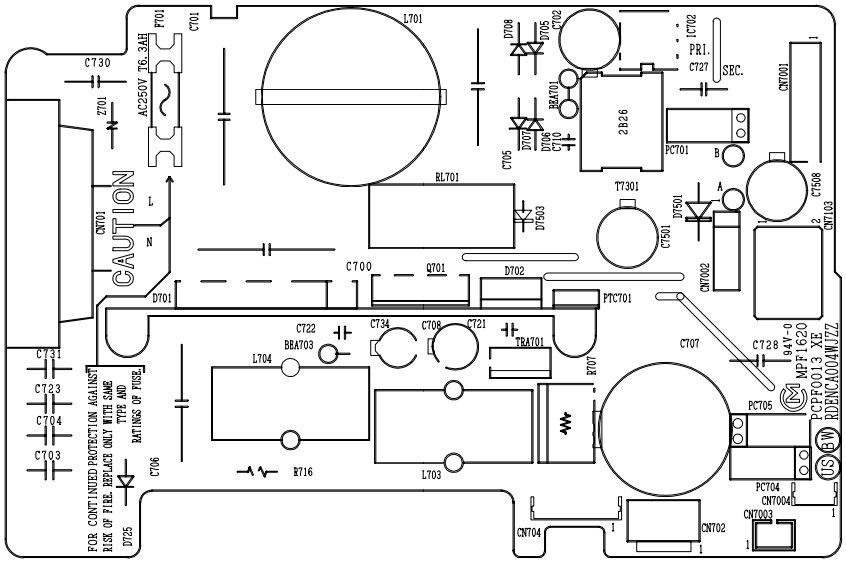


INPUT Unit (Side-B)

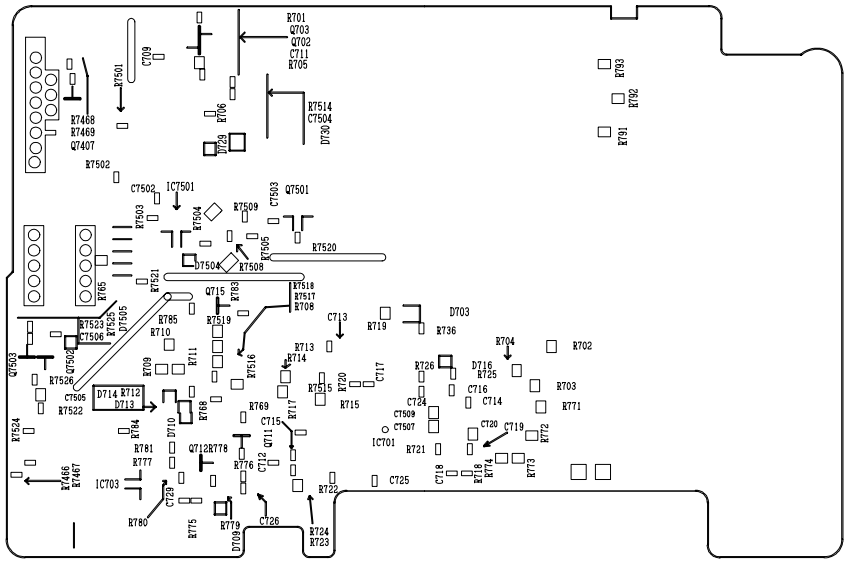


KEY Unit (Side-B)

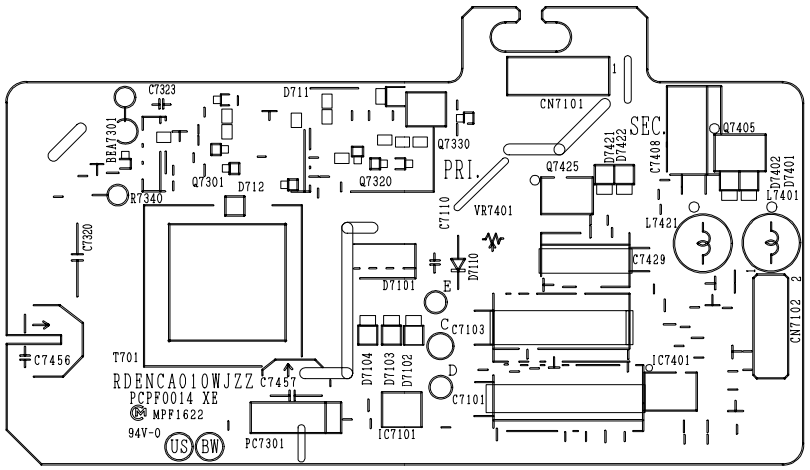
1	2	3	4	5	6



POWER Unit (Side-A)



POWER Unit (Side-B)



PFC Unit (Component Side)

PARTS LIST

PARTS REPLACEMENT

Parts marked with "⚠" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

"HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following informations.

1. MODEL NUMBER
2. REF. NO.
3. PART NO.
4. DESCRIPTION
5. CODE
6. QUANTITY

in **USA**: Contact your nearest SHARP Parts Distributor.
For location of SHARP Parts Distributor,
Please call Toll-Free; 1-800-BE-SHARP

in **CANADA**: Contact SHARP Electronics of Canada Limited
Phone (416) 890-2100.

★ MARK: SPARE PARTS-DELIVERY SECTION

ERSATZTEILLISTE

AUSTAUSCH VON TEILEN

Ersatzteile, die besondere Sicherheitseigenschften haben, sind in dieser Anleitung markiert. Elektrische Komponenten mit solchen Eigenshaften sind in den Ersatzteil durch "⚠" gekenn-zeichnet.
Der Gebrauch von Ersatzteilen, die nicht deselben Sicherheits-eigenschaften haben wie die vom Hersteller empfohlenen ud in der Bedienungsanleitung angegebenen, können zur Ursache von Blitzeinschlägen, Bränden und anderen Gefahren werden.

"WIE MAN ERSATSTEILE BESTELLT"

Damit Ihre Bestellung promt und korrekt ausgeführt wird, geben Sie bitte folgende Informationen.

1. MODELL NR.
2. REF. NR.
3. ERSATZTEIL NR.
4. BESCHREIBUNG
5. KODE
6. QUANTITÄT

★ MARKIERUNG : ERSATZTEILE-LIEFERUNG

Ref. No.	Part No.	★	Description	Code

PRINTED WIRING BOARD ASSEMBLIES (NOT REPLACEMENT ITEM)

DUNTKB065DE01		-	Formatter Unit	—
DUNTKB066DE01		-	Input Unit	—
DUNTKB067DE01		-	Key Unit	—
RDENCA004WJZZ		-	Power Unit	—
RDENCA010WJZZ		-	PFC Unit	—
CPCi-0057CE01		-	PC I/F Unit	—
RDENCA005WJZZ	J		Ballast Unit (Unit Replacement)	BZ

DUNTKB065DE01
FORMATTER UNIT

INTEGRATED CIRCUITS

IC9001	VHiTCDCR83D-1	J	TCDCR83D	
IC9003	RH-iXA089WJZZ	J	IC	
IC9004	RH-iXA090WJZZ	J	IC	
IC9005	VHiLT1613CS-1	J	LT1613CS	
IC9006	VHiK4R271S8-1	J	K4R271S8	
IC9007	VHiLP3962M1-1	J	LP3962M1	
IC9101	VHiAHCT08PW-1	J	AHCT08PW	
IC9504	VHiOPA237NA-1	J	OPA237NA	
IC9505	VHiLM321MF+-1	J	LM321MF	
IC9506	VHiOPA237NA-1	J	OPA237NA	
IC9507	RH-iXA005WJZZ	J	IC	
IC9510	VHi4040CM35-1	J	4040CM35	
IC9511	VHi4040CM35-1	J	4040CM35	

TRANSISTORS

Q9001	VS2SJ356+++-1	J	2SJ356	
Q9002	VS2SC4672Q/-1	J	2SC4672Q	AE
Q9003	VS2SC3928AR-1	J	2SC3928AR	AB
Q9101	VS2SC3928AR-1	J	2SC3928AR	AB
Q9102	VS2SC3928AR-1	J	2SC3928AR	AB
Q9501	VSMMBT2907A-1	J	MMBT2907A	
Q9502	VSMMBT2907A-1	J	MMBT2907A	
Q9503	VSMMBT2222A-1	J	MMBT2222A	
Q9504	VSMMBT2907A-1	J	MMBT2907A	
Q9505	VSMMBT2222A-1	J	MMBT2222A	
Q9506	VSMMBT2907A-1	J	MMBT2907A	
Q9507	VSiMT17++++-1	J	IMT17	
Q9508	VSUMH4N++++-1	J	UMH4N	
Q9509	VSUMH4N++++-1	J	UMH4N	
Q9510	VSFDG6303N+-1	J	FDG6303N	
Q9511	VSFDG6303N+-1	J	FDG6303N	
D9005	VHDMi1A3///2E	J	Diode	AC

DIODES AND THERMISTER

D9006	VHDMi1A3///2E	J	Diode	AC
D9007	VHDMi1A3///2E	J	Diode	AC
D9008	VHDSFPA73//2E	J	Diode	
TH9003	RH-HXA001WJZZ	J	Thermister	AD

PACKAGED CIRCUITS AND COIL

X9001	RCRUAA001WJZZ	J	Crystal	

DUNTKB065DE01
FORMATTER UNIT(Continued)

Ref. No.	Part No.	★	Description	Code
X9002	RCRUAA002WJZZ	J	Crystal	
L9001	RCiLP0191GEZZ	J	Peaking Coil	

CAPACITOES

Ref. No.	Part No.	★			Description	Code
C9001	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C9002	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C9003	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C9004	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C9006	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C9007	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C9008	VCCCCY1HH680J	J	68p	50V	Ceramic	AA
C9009	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C9010	VCCCCY1HH680J	J	68p	50V	Ceramic	AA
C9011	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C9013	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C9014	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C9015	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C9016	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C9019	VCSNDE0GP107M	J	100	4.0V		
C9021	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C9022	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C9023	VCKYCY1CB104K	J	0.1	16V	Ceramic	AB
C9024	VCCCCY1HH680J	J	68p	50V	Ceramic	AA
C9025	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C9026	VCCCCY1HH680J	J	68p	50V	Ceramic	AA
C9027	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C9028	VCEAPF1HW105M	J	1.0	50V	Electrolytic	AB
C9029	VCKYCY1CB104K	J	0.1	16V	Ceramic	AB
C9030	VCCCCY1HH4R0C	J	4.0p	50V	Ceramic	AA
C9032	VCKYCY1CB104K	J	0.1	16V	Ceramic	AB
C9034	VCKYCY1CB104K	J	0.1	16V	Ceramic	AB
C9035	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C9036	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C9037	VCEASH1VN106M	J	10	35V	Electrolytic	
C9038	VCKYCY1CB104K	J	0.1	16V	Ceramic	AB
C9039	VCKYCY1HF104Z	J	0.1	50V	Ceramic	
C9041	VCKYCY1CB104K	J	0.1	16V	Ceramic	AB
C9042	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C9043	VCKYCY1CB104K	J	0.1	16V	Ceramic	AB
C9044	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C9045	VCKYCY1CB104K	J	0.1	16V	Ceramic	AB
C9046	VCEASH1VN106M	J	10	35V	Electrolytic	
C9047	VCKYCY1HF104Z	J	0.1	50V	Ceramic	
C9049	VCEASH1VN106M	J	10	35V	Electrolytic	
C9050	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C9051	VCKYCY1HF104Z	J	0.1	50V	Ceramic	
C9053	VCKYCY1CB104K	J	0.1	16V	Ceramic	AB
C9054	VCCCCY1HH7R0D	J	7.0p	50V	Ceramic	AA
C9055	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C9056	VCEAPV1EW475M	J	4.7	25V	Electrolytic	AC
C9057	VCKYCY1CB104K	J	0.1	16V	Ceramic	AB
C9058	VCEAPF1EW475M	J	4.7	25V	Electrolytic	AB
C9059	VCKYCY1CB104K	J	0.1	16V	Ceramic	AB
C9060	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C9061	VCKYCY1CB104K	J	0.1	16V	Ceramic	AB
C9062	VCKYCY1CB104K	J	0.1	16V	Ceramic	AB
C9063	VCSNDE0GP107M	J	100	4.0V		
C9064	VCEAPF1HW105M	J	1.0	50V	Electrolytic	AB
C9065	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C9066	VCEAPF1HW335M	J	3.3	50V	Electrolytic	AB
C9067	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C9068	VCEAPF1HW335M	J	3.3	50V	Electrolytic	AB
C9069	VCSNDE0GP107M	J	100	4.0V		
C9070	VCKYCY1HF104Z	J	0.1	50V	Ceramic	
C9071	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C9072	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C9073	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C9075	VCEAPF1HW105M	J	1.0	50V	Electrolytic	AB
C9101	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C9102	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C9503	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C9505	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C9510	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C9511	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C9513	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C9514	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C9515	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C9516	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C9517	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C9519	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C9520	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C9521	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C9522	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C9523	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C9524	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C9525	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C9527	VCKYCY1HF104Z	J	0.1	50V	Ceramic	
C9528	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C9529	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C9530	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C9531	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C9532	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C9533	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C9535	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C9536	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C9537	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C9538	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C9539	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C9542	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C9544	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C9545	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C9546	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C9547	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C9548	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C9549	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C9550	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C9551	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C9552	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C9553	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C9554	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C9555	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C9558	VCEAPF0GW227M	J	220	4.0V	Electrolytic	AB
C9562	VCEAPF1HW335M	J	3.3	50V	Electrolytic	AB
C9563	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C9564	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C9565	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C9566	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C9567	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA

RESISTORS

Ref. No.	Part No.	★			Description	Code
R9001	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R9003	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R9005	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R9006	VRS-CY1JF111F	J	110	1/16W	Metal Oxide	AA
R9007	VRS-CY1JF111F	J	110	1/16W	Metal Oxide	AA
R9008	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R9010	VRS-CY1JF560F	J	56	1/16W	Metal Oxide	AA
R9011	VRS-CY1JF560F	J	56	1/16W	Metal Oxide	AA
R9014	VRS-CY1JF302F	J	3.0k	1/16W	Metal Oxide	AA
R9017	VRS-CY1JF683F	J	68k	1/16W	Metal Oxide	AA
R9018	VRS-TV1JD240J	J	24	1/16W	Metal Oxide	AA
R9020	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R9031	VRS-CY1JF333J	J	33k	1/16W	Metal Oxide	AA
R9032	VRS-CY1JF333J	J	33k	1/16W	Metal Oxide	AA
R9101	VRS-CY1JF471J	J	470	1/16W	Metal Oxide	AA
R9102	VRS-CY1JF182J	J	1.8k	1/16W	Metal Oxide	AA
R9103	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R9104	VRS-CY1JF471J	J	470	1/16W	Metal Oxide	AA
R9105	VRS-CY1JF473J	J	47k	1/16W	Metal Oxide	AA
R9106	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R9107	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R9108	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R9109	VRS-CY1JF473J	J	47k	1/16W	Metal Oxide	AA
R9110	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R9111	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R9112	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R9113	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R9114	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA

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Ref. No.	Part No.	★	Description			Code
R9115	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R9116	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R9118	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R9119	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R9120	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R9121	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R9131	VRS-CY1JF184J	J	180k	1/16W	Metal Oxide	AA
R9132	VRN-CY1JF472D	J	4.7k	1/16W	Metal Film	AA
R9135	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R9201	VRK-CD1JJ390F	J	39	1/16W	Metal Compo	
R9202	VRK-CD1JJ390F	J	39	1/16W	Metal Compo	
R9203	VRK-CD1JJ390F	J	39	1/16W	Metal Compo	
R9204	VRS-CY1JF390F	J	39	1/16W	Metal Oxide	
R9205	VRS-CY1JF390F	J	39	1/16W	Metal Oxide	
R9206	VRS-CY1JF390F	J	39	1/16W	Metal Oxide	
R9207	VRS-CY1JF390F	J	39	1/16W	Metal Oxide	
R9301	VRK-CC1JJ220J	J	22	1/16W	Metal Compo	
R9302	VRK-CC1JJ220J	J	22	1/16W	Metal Compo	
R9303	VRS-CB1JF220J	J	22	1/16W	Metal Oxide	AC
R9304	VRK-CC1JJ220J	J	22	1/16W	Metal Compo	
R9305	VRK-CC1JJ220J	J	22	1/16W	Metal Compo	
R9306	VRK-CC1JJ220J	J	22	1/16W	Metal Compo	
R9307	VRK-CC1JJ220J	J	22	1/16W	Metal Compo	
R9308	VRK-CC1JJ220J	J	22	1/16W	Metal Compo	
R9309	VRK-CC1JJ220J	J	22	1/16W	Metal Compo	
R9310	VRS-CA1JF220J	J	22	1/16W	Metal Oxide	AA
R9401	VRS-CA1JF273J	J	27k	1/16W	Metal Oxide	AA
R9402	VRS-CB1JF273J	J	27k	1/16W	Metal Oxide	AC
R9502	VRS-CY1JF222J	J	2.2k	1/16W	Metal Oxide	AA
R9503	VRS-CA1JF103J	J	10k	1/16W	Metal Oxide	AA
R9506	VRS-CY1JF240F	J	24	1/16W	Metal Oxide	
R9507	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R9508	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R9509	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R9510	VRS-CY1JF240F	J	24	1/16W	Metal Oxide	
R9511	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R9512	VRS-CY1JF222J	J	2.2k	1/16W	Metal Oxide	AA
R9515	VRS-TV1JD270J	J	27	1/16W	Metal Oxide	AA
R9517	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R9518	VRS-CY1JF240F	J	24	1/16W	Metal Oxide	
R9519	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R9522	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R9524	VRS-CY1JF240J	J	24	1/16W	Metal Oxide	
R9527	VRS-CY1JF104F	J	100k	1/16W	Metal Oxide	AA
R9528	VRS-CY1JF273J	J	27k	1/16W	Metal Oxide	AA
R9529	VRS-TV1JD240J	J	24	1/16W	Metal Oxide	AA
R9530	VRS-TV1JD330J	J	33	1/16W	Metal Oxide	AA
R9532	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R9535	VRS-CY1JF203F	J	20k	1/16W	Metal Oxide	AA
R9538	VRS-TV1JD1R0J	J	1.0	1/16W	Metal Oxide	AA
R9539	VRN-CY1JF472D	J	4.7k	1/16W	Metal Film	AA
R9541	VRS-CY1JF202F	J	2.0k	1/16W	Metal Oxide	AA
R9542	VRS-CY1JF111F	J	110	1/16W	Metal Oxide	AA
R9543	VRS-CY1JF240J	J	24	1/16W	Metal Oxide	
R9546	VRS-TV1JD100J	J	10	1/16W	Metal Oxide	AA
R9547	VRS-CY1JF432F	J	4.3k	1/16W	Metal Oxide	AA
R9548	VRN-CY1JF472D	J	4.7k	1/16W	Metal Film	AA
R9549	VRS-TV1JD1R0J	J	1.0	1/16W	Metal Oxide	AA
R9550	VRN-CY1JF203D	J	20k	1/16W	Metal Film	AB
R9551	VRS-CY1JF222F	J	2.2k	1/16W	Metal Oxide	AA
R9552	VRS-TV1JD240J	J	24	1/16W	Metal Oxide	AA
R9553	VRS-TV1JD240J	J	24	1/16W	Metal Oxide	AA
R9554	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R9555	VRS-TV1JD1R0J	J	1.0	1/16W	Metal Oxide	AA
R9556	VRS-CY1JF100J	J	10	1/16W	Metal Oxide	AA
R9557	VRS-CY1JF820F	J	82	1/16W	Metal Oxide	AA
R9558	VRS-CY1JF331F	J	330	1/16W	Metal Oxide	AA
R9559	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R9560	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R9561	VRS-CY1JF562J	J	5.6k	1/16W	Metal Oxide	AA
R9562	VRS-CY1JF330F	J	33	1/16W	Metal Oxide	
R9563	VRS-CY1JF561F	J	560	1/16W	Metal Oxide	AA
R9564	VRS-CY1JF562J	J	5.6k	1/16W	Metal Oxide	AA
R9565	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R9566	VRS-CY1JF821F	J	820	1/16W	Metal Oxide	AA
R9567	VRS-CY1JF121F	J	120	1/16W	Metal Oxide	AA
R9569	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R9574	VRS-CY1JF222J	J	2.2k	1/16W	Metal Oxide	AA
R9575	VRS-CY1JF222J	J	2.2k	1/16W	Metal Oxide	AA
R9591	VRS-TW2ED000J	J	0	1/4W	Metal Oxide	AB
R9592	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA

SWITCH

S9001	QSW-SA004WJZZ	J	Slide Switch	

MISCELLANEOUS PARTS

FB9001	RBLN-0061TAZZ	J	Ferrite Bead	AD
FB9002	RBLN-0061TAZZ	J	Ferrite Bead	AD
FB9003	RBLN-0061TAZZ	J	Ferrite Bead	AD
FB9004	RBLN-0210TAZZ	J	Ferrite Bead	AB
FB9005	RBLN-0210TAZZ	J	Ferrite Bead	AB
FB9006	RBLN-0061TAZZ	J	Ferrite Bead	AD
FB9502	RBLN-0210TAZZ	J	Ferrite Bead	AB
FB9507	RBLN-0210TAZZ	J	Ferrite Bead	AB
P9002	QPLGN0474TAZZ	J	Plug, 4-pin	AD
P9003	QPLGN0363TAZZ	J	Plug, 3-pin	AC
SC9001	QSOCN8003WJZZ	J	Socet, 80-pin	
SC9002	QSOCN3078TAZZ	J	Socet ,30-pin	AE

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INTEGRATED CIRCUITS

Ref. No.	Part No.	★	Description	Code
IC3002	VHiM62392FP-1	J	M62392FP	AM
IC3101	VHiA8902CLB-1	J	A8902CLB	
IC3102	VHiPQ20WZ11-1	J	PQ20WZ1U	AG
IC3103	VHiSNT1G14C-1	J	SNT1G14C	
IC3201	RH-iXA178WJZZ	J	IC	
IC3301	VHiDA7056AT-1	J	TDA7056AT/N2	
IC3502	VHiNJM2244M-1	J	NJM2244M	AG
IC3702	VHiPQ12DZ1U-1	J	PQ12DZ1U	
IC3704	VHiPQ20WZ11-1	J	PQ20WZ1U	AG
IC3705	VHiPQ05DZ1U-1	J	PQ05DZ1U	
IC3708	VHiBD4744G+-1	J	BD4744G-TR	
IC3851	VHiSM5300AV-1	J	SM5300AV	
IC3901	VHiTL712CPW-1	J	T1712CPWR	AL
IC3902	VHiLMH6643A-1	J	LMH6643A	
IC3903	VHiTL712CPW-1	J	T1712CPWR	AL

TRANSISTORS

Ref. No.	Part No.	★	Description	Code
Q3002	VSHN1K03FU+-1	J	HN1K03FU	
Q3003	VSHN1K03FU+-1	J	HN1K03FU	
Q3004	VS2SB1132Q/-1	J	2SB1132Q	AC
Q3101	VSDTC114EE/-1	J	DTC114EE	AB
Q3201	VSBSS84++++-1	J	BSS84	
Q3205	VSHN1K03FU+-1	J	HN1K03FU	
Q3206	VSRN1905///-1	J	RN1905	
Q3502	VS2SC3928AR-1	J	2SC3928AR	AB
Q3507	VS2SC3928AR-1	J	2SC3928AR	AB
Q3512	VS2SA1530AR-1	J	2SA1530AR	AB
Q3513	VS2SC3928AR-1	J	2SC3928AR	AB
Q3851	VS2SC2735//-1	J	2SC2735	AB
Q3852	VS2SC2735//-1	J	2SC2735	AB
Q3853	VS2SC2735//-1	J	2SC2735	AB
Q3854	VSHN2C01FU/-1	J	HN2C01FU	AC
Q3855	VSHN2C01FU/-1	J	HN2C01FU	AC
Q3904	VS2SC2412KQ-1	J	2SC2412KQ	AA

DIODES AND THERMISTER

Ref. No.	Part No.	★	Description	Code
D3101	VHDBAT54SWT-1	J	Diode	
D3102	VHDBAT54SWT-1	J	Diode	
D3103	VHDBAT54SWT-1	J	Diode	
D3104	VHDDAN222//-1	J	Diode	AA
D3105	VHDBAT54SWT-1	J	Diode	
D3201	VHDMA3120WA-1	J	Diode	AK
D3202	VHDMA3120WA-1	J	Diode	AK
D3203	VHDMA3120WA-1	J	Diode	AK
D3501	RH-EX0227CEZZ	J	Zener Diode	AB
D3502	RH-EX0227CEZZ	J	Zener Diode	AB
D3503	RH-EX0227CEZZ	J	Zener Diode	AB
D3702	VHDDAN222//-1	J	Diode	AA
D3704	VHDDAN222//-1	J	Diode	AA
TH3001	RH-HXA001WJZZ	J	Thermister	AD

PACKAGED CIRCUIT AND FILTERS

Ref. No.	Part No.	★	Description	Code
X3201	RFiLA0042CEZZ	J	Filter, 454kHz	AD
FL3501	RFiLN0003TAZZ	J	Filter	AD
FL3502	RFiLN0003TAZZ	J	Filter	AD
FL3503	RFiLN0003TAZZ	J	Filter	AD
FL3506	RCiLF0306CEZZ	J	Filter	AH

CAPACITORS

Ref. No.	Part No.	★				Code
C3001	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3002	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3003	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3004	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3005	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3006	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3101	VCKYCY1HB102K	J	1000p	50V	Ceramic	AA
C3102	VCKYCY1HB332K	J	3300p	50V	Ceramic	AA
C3103	VCKYCY1HB332K	J	3300p	50V	Ceramic	AA
C3104	VCKYCY1HB102K	J	1000p	50V	Ceramic	AA
C3105	VCKYCY1HB222K	J	2200p	50V	Ceramic	AA
C3106	VCEASM1HW105M	J	1.0	50V	Electrolytic	
C3107	VCKYCY1HB102K	J	1000p	50V	Ceramic	AA
C3109	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3110	VCKYCY1HF224Z	J	0.22	50V	Ceramic	
C3111	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3112	VCKYCY1HB562K	J	5600p	50V	Ceramic	AA
C3113	VCKYCY1AB154K	J	0.15	10V	Ceramic	
C3114	VCEASM1EW106M	J	10	25V	Electrolytic	
C3115	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3116	VCEASM1CW476M	J	47	16V	Electrolytic	
C3117	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3118	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3119	VCEASM1CW106M	J	10	16V	Electrolytic	
C3120	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3121	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3122	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3201	VCEASM1CW106M	J	10	16V	Electrolytic	
C3202	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3204	VCCCCY1HH150J	J	15p	50V	Ceramic	AA
C3205	VCCCCY1HH150J	J	15p	50V	Ceramic	AA
C3301	VCCCCY1HH101J	J	100p	50V	Ceramic	AA
C3302	VCCCCY1HH101J	J	100p	50V	Ceramic	AA
C3303	VCE9PF1CW106M	J	10	16V	Elect.(N.P)	AC
C3304	VCE9PF1CW106M	J	10	16V	Elect.(N.P)	AC
C3305	VCEASM1CW106M	J	10	16V	Electrolytic	
C3306	VCCCCY1HH471J	J	470p	50V	Ceramic	AA
C3307	VCEASM1CW107M	J	100	16V	Electrolytic	
C3308	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3309	VCEASM1CW106M	J	10	16V	Electrolytic	
C3310	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3503	VCEASM1CW106M	J	10	16V	Electrolytic	
C3504	VCEASM1CW106M	J	10	16V	Electrolytic	
C3507	VCEASM1CW106M	J	10	16V	Electrolytic	
C3510	VCEASM1CW106M	J	10	16V	Electrolytic	
C3511	VCEASM1CW106M	J	10	16V	Electrolytic	
C3513	VCEASM1CW476M	J	47	16V	Electrolytic	
C3547	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3551	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3701	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3702	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3703	VCEASM1CW106M	J	10	16V	Electrolytic	
C3706	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3707	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3708	VCEASM1EW476M	J	47	25V	Electrolytic	
C3710	VCEASM1EW106M	J	10	25V	Electrolytic	
C3711	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3712	VCEASM1CW226M	J	22	16V	Electrolytic	
C3715	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3718	VCEASM1CW106M	J	10	16V	Electrolytic	
C3722	VCEASM0JW226M	J	22	6.3V	Electrolytic	
C3725	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3726	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3728	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3733	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3734	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3741	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3742	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3851	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3852	VCEASM1HW105M	J	1.0	50V	Electrolytic	
C3853	VCEASM1HW105M	J	1.0	50V	Electrolytic	
C3854	VCEASM1HW105M	J	1.0	50V	Electrolytic	
C3855	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3856	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3857	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3858	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3862	VCEASM1CW106M	J	10	16V	Electrolytic	
C3863	VCEASM1CW106M	J	10	16V	Electrolytic	
C3864	VCEASM1CW106M	J	10	16V	Electrolytic	
C3865	VCEASM1CW106M	J	10	16V	Electrolytic	
C3901	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3903	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3904	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3905	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3907	VCE9PF1HW474M	J	0.47	50V	Elect.(N.P)	AD
C3909	VCCCCY1HH101J	J	100p	50V	Ceramic	AA
C3910	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA

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INPUT UNIT (Continued)

Ref. No.	Part No.	★	Description	Code
C3911	VCKYCY1HB222K	J	2200p 50V Ceramic	AA

RESISTORS

Ref. No.	Part No.	★	Description	Code
R3003	VRS-CY1JF184J	J	180k 1/16W Metal Oxide	AA
R3004	VRS-CY1JF472J	J	4.7k 1/16W Metal Oxide	AA
R3006	VRS-CA1JF332J	J	3.3k 1/16W Metal Oxide	
R3009	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R3010	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R3012	VRS-CY1JF332J	J	3.3k 1/16W Metal Oxide	AA
R3014	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R3023	VRS-CY1JF221J	J	220 1/16W Metal Oxide	AA
R3024	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R3026	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R3027	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R3101	VRS-TW2ED151J	J	150 1/4W Metal Oxide	AA
R3102	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R3103	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R3104	VRS-TW2ED151J	J	150 1/4W Metal Oxide	AA
R3105	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R3106	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R3107	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R3108	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R3109	VRS-TW2ED151J	J	150 1/4W Metal Oxide	AA
R3111	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R3113	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R3114	VRS-CY1JF305J	J	3.0M 1/16W Metal Oxide	
R3115	VRS-TX2HF2R2J	J	2.2 1/2W Metal Oxide	AB
R3116	VRS-CY1JF390F	J	39 1/16W Metal Oxide	
R3118	VRS-CY1JF562F	J	5.6k 1/16W Metal Oxide	AA
R3119	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R3120	VRS-CY1JF222F	J	2.2k 1/16W Metal Oxide	AA
R3121	VRS-CY1JF472F	J	4.7k 1/16W Metal Oxide	AA
R3122	VRS-CY1JF682J	J	6.8k 1/16W Metal Oxide	AA
R3123	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R3124	VRS-CY1JF472J	J	4.7k 1/16W Metal Oxide	AA
R3125	VRS-CE3AF5R6J	J	5.6 1W Metal Oxide	
R3126	VRS-CE3AF5R6J	J	5.6 1W Metal Oxide	
R3201	RBLN-0060TAZZ	J	Ferrite Bead	AB
R3206	VRS-CY1JF104J	J	100k 1/16W Metal Oxide	AA
R3207	VRS-CY1JF752F	J	7.5k 1/16W Metal Oxide	AA
R3209	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R3212	VRS-CY1JF154J	J	150k 1/16W Metal Oxide	AA
R3213	VRS-CY1JF224J	J	220k 1/16W Metal Oxide	AA
R3216	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R3222	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R3225	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R3226	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R3227	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R3229	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R3230	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R3231	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R3232	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R3233	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R3234	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R3235	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R3302	VRS-CY1JF223J	J	22k 1/16W Metal Oxide	AA
R3303	VRS-CY1JF223J	J	22k 1/16W Metal Oxide	AA
R3304	VRS-CY1JF224J	J	220k 1/16W Metal Oxide	AA
R3305	VRS-CY1JF224J	J	220k 1/16W Metal Oxide	AA
R3306	VRS-CY1JF473J	J	47k 1/16W Metal Oxide	AA
R3307	VRS-CA1JF272J	J	2.7k 1/16W Metal Oxide	AA
R3308	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R3309	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R3310	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R3311	VRS-CY1JF393J	J	39k 1/16W Metal Oxide	AA
R3312	VRS-CY1JF823J	J	82k 1/16W Metal Oxide	AA
R3313	VRS-TX2HF8R2J	J	8.2 1/2W Metal Oxide	AA
R3501	VRS-TV1JD000J	J	0 1/16W Metal Oxide	AA
R3504	VRS-TW2ED750J	J	75 1/4W Metal Oxide	AA
R3505	VRS-TW2ED750J	J	75 1/4W Metal Oxide	AA
R3506	VRS-TW2ED750J	J	75 1/4W Metal Oxide	AA
R3515	VRS-CY1JF332J	J	3.3k 1/16W Metal Oxide	AA
R3516	VRS-CY1JF562J	J	5.6k 1/16W Metal Oxide	AA
R3522	VRS-CY1JF122J	J	1.2k 1/16W Metal Oxide	AA
R3526	VRS-CY1JF332J	J	3.3k 1/16W Metal Oxide	AA
R3528	VRS-CY1JF562J	J	5.6k 1/16W Metal Oxide	AA
R3531	VRS-CY1JF122J	J	1.2k 1/16W Metal Oxide	AA
R3537	VRS-TV1JD000J	J	0 1/16W Metal Oxide	AA
R3547	VRS-TV1JD000J	J	0 1/16W Metal Oxide	AA
R3551	VRS-CY1JF105J	J	1.0M 1/16W Metal Oxide	AA
R3552	VRS-CY1JF105J	J	1.0M 1/16W Metal Oxide	AA
R3553	VRS-TV1JD000J	J	0 1/16W Metal Oxide	AA
R3561	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R3562	VRS-CY1JF391J	J	390 1/16W Metal Oxide	AA
R3563	VRS-CY1JF392J	J	3.9k 1/16W Metal Oxide	AA
R3564	VRS-CY1JF471J	J	470 1/16W Metal Oxide	AA
R3705	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R3707	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R3708	VRS-CY1JF223F	J	22k 1/16W Metal Oxide	AA
R3709	VRS-CY1JF392F	J	3.9k 1/16W Metal Oxide	AA
R3711	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R3715	VRS-CE3AF3R3J	J	3.3 1W Metal Oxide	
R3716	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R3717	VRS-CE3AF2R2J	J	2.2 1W Metal Oxide	
R3718	VRS-CY1JF223F	J	22k 1/16W Metal Oxide	AA
R3851	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R3852	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R3856	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R3857	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R3858	VRS-CY1JF821J	J	820 1/16W Metal Oxide	AA
R3863	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R3864	VRS-TV1JD750J	J	75 1/16W Metal Oxide	AA
R3865	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R3866	VRS-TV1JD750J	J	75 1/16W Metal Oxide	AA
R3867	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R3868	VRS-TV1JD750J	J	75 1/16W Metal Oxide	AA
R3870	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R3871	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R3872	VRS-CB1JF223J	J	22k 1/16W Metal Oxide	AA
R3873	VRS-CB1JF223J	J	22k 1/16W Metal Oxide	AA
R3877	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R3878	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R3879	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R3904	VRS-CY1JF112F	J	1.1k 1/16W Metal Oxide	AA
R3905	VRS-CY1JF151F	J	150 1/16W Metal Oxide	AA
R3907	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R3908	VRS-CY1JF272F	J	2.7k 1/16W Metal Oxide	AA
R3909	VRS-CY1JF102J	J	1.0k 1/16W Metal Oxide	AA
R3910	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R3914	VRS-CY1JF821J	J	820 1/16W Metal Oxide	AA
R3915	VRS-CY1JF333J	J	33k 1/16W Metal Oxide	AA
R3916	VRS-CY1JF821J	J	820 1/16W Metal Oxide	AA
R3917	VRS-CY1JF470J	J	47 1/16W Metal Oxide	AA
R3918	VRS-CY1JF123J	J	12k 1/16W Metal Oxide	AA

MISCELLANEOUS PARTS

Ref. No.	Part No.	★	Description	Code
FB3101	RBLN-0210TAZZ	J	Ferrite Bead	AB
FB3102	RBLN-0062CEZZ	J	Ferrite Bead	AC
FB3103	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB3201	RBLN-0060TAZZ	J	Ferrite Bead	AB
FB3202	RBLN-0060TAZZ	J	Ferrite Bead	AB
FB3203	RBLN-0060TAZZ	J	Ferrite Bead	AB
FB3301	RBLN-0064TAZZ	J	Ferrite Bead	AC
FB3302	RBLN-0058CEZZ	J	Ferrite Bead	AB
FB3303	RBLN-0058CEZZ	J	Ferrite Bead	AB
FB3304	RBLN-0064TAZZ	J	Ferrite Bead	AC
J3201	QSOCNA005WJZZ	J	Jack, 4-Pin	AE
J3301	QJAKJ0066CEZZ	J	Jack , PC Audio IN	AE
J3501	QJAKEA002WJZZ	J	Jack, Video IN	AD
J3502	QSOCD0426CEZZ	J	Din Jack Socket	AE
P3002	QSOCN3278TAZZ	J	Plug, 32-pin	
P3003	QSOCN3078TAZZ	J	Plug, 30-pin	AE
P3101	QPLGN0198FJZZ	J	Plug, 3-pin	AD
SC3001	QCNCW8002WJZZ	J	Socket, 80-pin	
SC3101	QSOCN0401WJZZ	J	Socket, 4-pin	
SC3701	QSOCZ1338CEZZ	J	Socket, 13-pin	AD
	LANGF9661CEFW	J	Angle	
	XBBSD20P03000	J	Screw	AA

DUNTKB067DE01
KEY UNIT

INTEGRATED CIRCUITS

Ref. No.	Part No.	★	Description	Code
IC2001	RH-iXA128WJZZ	J	Ic	
IC2002	VHiBD4729G+-1	J	BD4729G-TR	
IC2004	VHiSNAT541P-1	J	SNAT541P	
IC2005	VHiSNHC32T/-1	J	SN74HC32PW	AG
IC2010	VHiPQ1R33//-1	J	PQ1R33	AE
IC2011	VHiPQ1R50//-1	J	PQ1R50	AF
IC2101	VHiBA00ASFP-1	J	BA00ASFP-E2	AG
IC2102	VHiBA00ASFP-1	J	BA00ASFP-E2	AG
IC2103	VHiBA00ASFP-1	J	BA00ASFP-E2	AG
IC2104	VHiBA00ASFP-1	J	BA00ASFP-E2	AG

TRANSISTORS

Ref. No.	Part No.	★	Description	Code
Q2001	VSDTC114EE/-1	J	DTC114EE	AB
Q2002	VSDTC114EE/-1	J	DTC114EE	AB
Q2003	VS2SB1132Q/-1	J	2SB1132Q	AC
Q2004	VS2SA1530AR-1	J	2SA1530AR	AB
Q2101	VSDTC114EE/-1	J	DTC114EE	AB
Q2201	VSDTC144EUA-1	J	DTC144EUA	AB
Q2202	VSDTC144EUA-1	J	DTC144EUA	AB
Q2203	VSDTC144EUA-1	J	DTC144EUA	AB
Q2204	VSDTC144EUA-1	J	DTC144EUA	AB
Q2205	VSDTC144EUA-1	J	DTC144EUA	AB

DIODES

Ref. No.	Part No.	★	Description	Code
D2001	VHDDAN222//-1	J	Diode	AA
D2002	VHDDAN222//-1	J	Diode	AA
D2003	VHDF01J2E//-1	J	Diode	AC
D2101	VHDDAN202K/-1	J	Diode	AB
D2102	VHDDAN202K/-1	J	Diode	AB
D2103	VHDDAN202K/-1	J	Diode	AB
D2104	VHDDAN202K/-1	J	Diode	AB
D2105	VHDDAN202K/-1	J	Diode	AB
D2106	VHDDAN202K/-1	J	Diode	AB
D2201	RH-PX0210TAZZ	J	Diode	
D2202	RH-PX0210TAZZ	J	Diode	
D2203	RH-PX0210TAZZ	J	Diode	

PACKAGED CIRCUIT

Ref. No.	Part No.	★	Description	Code
X2001	RCRSB0286CEZZ	J	Crystal	AH

CAPACITORS

Ref. No.	Part No.	★			Description	Code
C2001	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C2002	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C2003	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C2004	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C2005	VCKYCY1AF105Z	J	1.0	10V	Ceramic	AC
C2006	VCKYCY1AF105Z	J	1.0	10V	Ceramic	AC
C2007	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C2010	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C2011	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C2012	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C2013	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C2014	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C2015	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C2016	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C2017	VCEASM0JW476M	J	47	6.3V	Electrolytic	
C2019	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C2020	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C2021	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C2022	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C2023	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C2024	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C2025	VCEASM1CW106M	J	10	16V	Electrolytic	
C2026	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C2027	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C2028	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C2029	VCEASM1CW106M	J	10	16V	Electrolytic	
C2030	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C2101	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C2103	VCEASM1EW336M	J	33	25V	Electrolytic	
C2104	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C2105	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C2106	VCEASM1CW107M	J	100	16V	Electrolytic	
C2108	VCEASM1EW336M	J	33	25V	Electrolytic	
C2109	VCEASM1EW336M	J	33	25V	Electrolytic	
C2110	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C2111	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C2112	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C2113	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C2114	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C2115	VCEASM1CW107M	J	100	16V	Electrolytic	
C2116	VCEASM1CW107M	J	100	16V	Electrolytic	
C2117	VCEASM1EW336M	J	33	25V	Electrolytic	
C2118	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C2119	VCEASM1CW107M	J	100	16V	Electrolytic	
C2120	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C2201	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C2202	VCEASM1CW226M	J	22	16V	Electrolytic	
C2203	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA

RESISTORS

Ref. No.	Part No.	★			Description	Code
R2001	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R2004	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R2005	VRS-CY1JF471J	J	470	1/16W	Metal Oxide	AA
R2006	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R2007	VRS-CY1JF100J	J	10	1/16W	Metal Oxide	AA
R2008	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R2009	VRS-CY1JF100J	J	10	1/16W	Metal Oxide	AA
R2010	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R2011	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R2012	VRS-CY1JF104J	J	100k	1/16W	Metal Oxide	AA
R2013	VRS-CY1JF222J	J	2.2k	1/16W	Metal Oxide	AA
R2014	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R2016	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R2018	VRS-CY1JF104J	J	100k	1/16W	Metal Oxide	AA
R2019	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R2020	VRS-CY1JF104J	J	100k	1/16W	Metal Oxide	AA
R2021	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R2022	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R2023	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R2025	VRS-TV1JD471J	J	470	1/16W	Metal Oxide	AA
R2027	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R2029	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R2030	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R2032	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R2033	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R2101	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R2103	VRS-TW2ED2R2J	J	2.2	1/4W	Metal Oxide	AB
R2104	VRS-CY1JF472F	J	4.7k	1/16W	Metal Oxide	AA
R2105	VRS-CY1JF102F	J	1.0k	1/16W	Metal Oxide	AA
R2106	VRS-CY1JF822F	J	8.2k	1/16W	Metal Oxide	AA
R2108	VRS-CY1JF682J	J	6.8k	1/16W	Metal Oxide	AA
R2109	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R2110	VRS-CB1JF472J	J	4.7k	1/16W	Metal Oxide	AC
R2111	VRS-TW2ED2R2J	J	2.2	1/4W	Metal Oxide	AB
R2112	VRS-TW2ED2R2J	J	2.2	1/4W	Metal Oxide	AB
R2113	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R2114	VRS-CY1JF332F	J	3.3k	1/16W	Metal Oxide	AA
R2115	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R2116	VRS-CY1JF472F	J	4.7k	1/16W	Metal Oxide	AA
R2117	VRS-CY1JF102F	J	1.0k	1/16W	Metal Oxide	AA
R2118	VRS-CY1JF683F	J	68k	1/16W	Metal Oxide	AA
R2120	VRS-CY1JF102F	J	1.0k	1/16W	Metal Oxide	AA
R2121	VRS-CY1JF103F	J	10k	1/16W	Metal Oxide	AA
R2122	VRS-CY1JF822F	J	8.2k	1/16W	Metal Oxide	AA
R2124	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R2125	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R2126	VRS-TW2ED2R2J	J	2.2	1/4W	Metal Oxide	AB
R2127	VRS-CY1JF332F	J	3.3k	1/16W	Metal Oxide	AA
R2128	VRS-CY1JF102F	J	1.0k	1/16W	Metal Oxide	AA
R2129	VRS-CY1JF473F	J	47k	1/16W	Metal Oxide	AA
R2130	VRS-CY1JF103F	J	10k	1/16W	Metal Oxide	AA
R2132	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R2133	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R2134	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R2201	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code

DUNTKB067DE01
KEY UNIT (Continued)

R2202	VRS-CB1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R2203	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R2204	VRS-CB1JF103J	J	10k	1/16W	Metal Oxide	AA
R2205	VRS-CY1JF562J	J	5.6k	1/16W	Metal Oxide	AA
R2206	VRS-CY1JF562J	J	5.6k	1/16W	Metal Oxide	AA
R2207	VRS-CY1JF562J	J	5.6k	1/16W	Metal Oxide	AA
R2208	VRS-CY1JF562J	J	5.6k	1/16W	Metal Oxide	AA
R2209	VRS-TW2ED221J	J	220	1/4W	Metal Oxide	AA
R2210	VRS-TW2ED681J	J	680	1/4W	Metal Oxide	AA
R2211	VRS-TW2ED221J	J	220	1/4W	Metal Oxide	AA
R2212	VRS-TW2ED681J	J	680	1/4W	Metal Oxide	AA
R2213	VRS-TW2ED681J	J	680	1/4W	Metal Oxide	AA
R2214	VRS-CY1JF682J	J	6.8k	1/16W	Metal Oxide	AA
R2215	VRS-CY1JF682J	J	6.8k	1/16W	Metal Oxide	AA
R2216	VRS-CY1JF682J	J	6.8k	1/16W	Metal Oxide	AA

SWITCHES

SW2001	QSW-KA001WJZZ	J	Switch	
SW2002	QSW-S0203TAZZ	J	Switch	AD
SW2201	QSW-KA001WJZZ	J	Switch	
SW2202	QSW-KA001WJZZ	J	Switch Lens	
SW2203	QSW-KA001WJZZ	J	Switch Menu	
SW2204	QSW-KA001WJZZ	J	Switch Auto Sync	
SW2205	QSW-KA001WJZZ	J	Switch AV Mute	
SW2206	QSW-KA001WJZZ	J	Switch Cursor Up	
SW2207	QSW-KA001WJZZ	J	Switch Cursor Down	
SW2208	QSW-KA001WJZZ	J	Switch Cursor Left	
SW2209	QSW-KA001WJZZ	J	Switch Cursor Right	
SW2210	QSW-KA001WJZZ	J	Switch Undo	
SW2211	QSW-KA001WJZZ	J	Switch Input	
SW2212	QSW-KA001WJZZ	J	Switch Enter	

MISCELLANEOUS PARTS

FB2003	RBLN-0064TAZZ	J	Ferrite Bead	AC
FB2004	RBLN-0064TAZZ	J	Ferrite Bead	AC
FB2101	RBLN-0064TAZZ	J	Ferrite Bead	AC
FB2102	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB2103	RBLN-0064TAZZ	J	Ferrite Bead	AC
FB2104	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB2105	RBLN-0064TAZZ	J	Ferrite Bead	AC
FB2106	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB2107	RBLN-0064TAZZ	J	Ferrite Bead	AC
FB2108	RBLN-0064TAZZ	J	Ferrite Bead	AC
FB2109	RBLN-0064TAZZ	J	Ferrite Bead	AC
FB2110	RBLN-0059CEZZ	J	Ferrite Bead	AB
P2001	QSOCN3271TAZZ	J	Plug, 32-pin(KY)	AE
P2002	QPLGN0264TAZZ	J	Plug, 2-pin(SP)	AC
P2003	QPLGN0664TAZZ	J	Plug, 6-pin(EB)	AD
P2101	QPLGN0464TAZZ	J	Plug, 4-pin(F1)	AC
P2102	QPLGN0364TAZZ	J	Plug, 3-pin(F2)	AC
P2103	QPLGN0463TAZZ	J	Plug, 4-pin(F3)	AC
P2104	QPLGN0363TAZZ	J	Plug, 3-pin(F5)	AC

Ref. No.	Part No.	★	Description	Code

RDENCA004WJZZ
POWER UNIT

INTEGRATED CIRCUITS

IC7101	0H1Q3A0010	TA76431
IC7401	0H1R3A0010	BA9743AFV-E2

TRANSISTORS

Q7301	0T601B0010	2SK2605
Q7302	0T395A0010	2SC4097
Q7320	0T601B0010	2SK2605
Q7322	0T395A0010	2SC4097
Q7330	0T196A0010	2SA1812
Q7340	0T395A0010	2SC4097
Q7402	0T395A0010	2SC4097
Q7403	0T193A0010	2SA1577
Q7405	0T593A0010	UPA1710AG
Q7422	0T395A0010	2SC4097
Q7423	0T193A0010	2SA1577
Q7425	0T593A0010	UPA1710AG
Q7461	0T193A0010	2SA1577
Q7462	0T395A0010	2SC4097

DIODES

D711	0D292A0020	SC902-2
D712	0D292A0020	SC902-2
D7101	0D224B0060	YG802C06R
D7102	0D2Q0A0100	EC31QS10
D7103	0D2Q0A0100	EC31QS10
D7104	0D2Q0A0100	EC31QS10
D7110	0D461A1900	HZ-18
D7304	0D295A0080	1SS355
D7306	0D295A0080	1SS355
D7307	0D295A0080	1SS355
D7308	0D491A0300	UDZ 33B
D7309	0D491A0300	UDZ 33B
D7322	0D295A0080	1SS355
D7330	0D491A0250	UDZ20B
D7340	0D295A0080	1SS355
D7401	0D2Q0A0030	EC31QS03L
D7402	0D2Q0A0030	EC31QS03L
D7421	0D2Q0A0030	EC31QS03L
D7422	0D2Q0A0030	EC31QS03L

COILS AND TRANSFORMERS

L7401	0L150S1000	18261A(10uH)
L7421	0L150S1000	18261A(10uH)
T701	L2000JS039	2J39

PACKAGED CIRCUIT

PC7301	0H723A0010	PC123

CONTROL

VR7401	0R854E1030	10k 1/10W

CAPACITORS

C7101		1200	16V	Electrolytic
C7103		680	25V	Electrolytic
C7105	0C195C1040	0.1	25V	Ceramic
C7110	0C1A9L4720	4700p	250V	Ceramic
C7309	0C193A4720	4700p	50V	Ceramic
C7310	0C1Q2E1030	0.01	50V	Ceramic
C7311	0C1Q1E1010	100p	50V	Ceramic
C7320	0C2X5L4730	0.047	250V	
C7321	0C1Q2E4720	4700p	50V	Ceramic
C7322	0C193A4720	4700p	50V	Ceramic
C7323	0C1B2S4700	47p	2kV	Ceramic
C7330	0C195E1040	0.1	50V	Ceramic
C7404	0C195E1030	0.01	50V	Ceramic
C7406	0C195E4710	470p	50V	Ceramic
C7408		470	10V	Electrolytic
C7424	0C195E1030	0.01	50V	Ceramic
C7426	0C195E4710	470p	50V	Ceramic
C7429		470	10V	Electrolytic

Ref. No.	Part No.	★	Description	Code

RDENCA004WJZZ

POWER UNIT (Continued)

C7451	0C195E4730	0.047	50V	Ceramic
C7452	0C195E1040	0.1	50V	Ceramic
C7453	0C195E1040	0.1	50V	Ceramic
C7454	0C1Q1E2210	220p	50V	Ceramic
C7455	0C195E4730	0.047	50V	Ceramic

RESISTORS

R7101	0R3Q4S3910	390	1/16W
R7102	0R3Q4S1030	10k	1/16W
R7103	0R3Q8S3320	3.3k	1/16W
R7104	0R3Q8S2720	2.7k	1/16W
R7105	0R3Q4S2220	2.2k	1/16W
R7106	0R3Q3V5610	560	1/10W
R7305	0R3Q4S2230	22k	1/16W
R7306	0R390T3320	3.3	1/4W
R7307	0R3Q4S3310	330	1/16W
R7308	0R3Q4S3320	3.3k	1/16W
R7309	0R3Q4S1010	100	1/16W
R7310	0R3Q8S8210	820	1/16W
R7311	0R3Q8S4720	4.7k	1/16W
R7312	0R3Q8S4730	47k	1/16W
R7314	0R390T3320	3.3k	1/4W
R7317	0R3Q3V5610	560	1/10W
R7320	0R3Q4S2230	22k	1/16W
R7321	0R390T1520	1.5k	1/4W
R7322	0R3Q4S3320	3.3k	1/16W
R7323	0R3Q4S2240	220k	1/16W
R7324	0R3Q8S2220	2.2k	1/16W
R7325	0R390T1030	10k	1/4W
R7327	0R3Q4S6820	6.8k	1/16W
R7330	0R3Q4S3330	33k	1/16W
R7331	0R3Q4S3330	33k	1/16W
R7332	0R3Q4S3330	33k	1/16W
R7333	0R390T5640	560k	1/4W
R7334	0R390T5640	560k	1/4W
R7335	0R390T5640	560k	1/4W
R7336	0R3Q4S3930	39k	1/16W
R7340	0R375DR330	0.33	2W
R7341	0R3Q3V1010	100	1/10W
R7342	0R3Q8S1030	10k	1/16W
R7401	0R3Q8S2220	2.2k	1/16W
R7403	0R3Q8S2220	2.2k	1/16W
R7404	0R3Q4S0000	0	1/16W
R7408	0R3Q4S1520	1.5k	1/16W
R7410	0R3Q4S0000	0	1/16W
R7411	0R3Q4S4700	47	1/16W
R7415	0R3Q4S1540	150k	1/16W
R7421	0R3Q8S5620	5.6k	1/16W
R7423	0R3Q8S2220	2.2k	1/16W
R7424	0R3Q8S1220	1.2k	1/16W
R7428	0R3Q4S1520	1.5k	1/16W
R7430	0R3Q4S0000	0	1/16W
R7431	0R3Q4S4700	47	1/16W
R7435	0R3Q4S1540	150k	1/16W
R7451	0R3Q8S4730	47k	1/16W
R7452	0R3Q8S3930	39k	1/16W
R7453	0R3Q8S4730	47k	1/16W
R7454	0R3Q8S3930	39k	1/16W
R7455	0R3Q4S3330	33k	1/16W
R7456	0R3Q4S1240	120k	1/16W
R7457	0R3Q4S2240	220k	1/16W
R7458	0R3Q4S3300	33	1/16W
R7462	0R3Q4S1030	10k	1/16W
R7463	0R3Q4S1030	10k	1/16W
R7464	0R3Q4S1030	10k	1/16W
R7465	0R3Q4S1220	1.2k	1/16W

MISCELLANEOUS PARTS

BEA7301	0L551A0020	BL02RN2-R62 T2
CN7102	K2107KS012	MDF7P-12DP-2.54DSA
CN7101	0WPF2013B0	CONNECTOR

Ref. No.	Part No.	★	Description	Code

RDENCA010WJZZ

PFC UNIT

INTEGRATED CIRCUITS

IC701	H3151AC001	FA5502M
IC702	0H1R1A0010	MIP0254SPSCF
IC703	0H1Q3A0010	TA76431
IC7501	0H1Q3A0010	TA76431

TRANSISTORS

TRA701	0D513A6120	SM12JZ47
Q701	T2837KL001	2SK2837
Q702	0T394A0010	2SC4081
Q703	0T192A0010	2SA1576A
Q711	0T394A0010	2SC4081
Q712	0T192A0010	2SA1576A
Q715	0T192A0010	2SA1576A
Q7407	0T394A0010	2SC4081
Q7501	0T397A0010	2SC4672K
Q7502	0T394A0010	2SC4081
Q7503	0T192A0010	2SA1576A
Z701	0D758A4710	ENC471

DIODES

D701	0D118A0060	D15XB60
D702		SF10L60U
D703	0D2Q3A0040	EC10QS04
D705	0D157A0060	ERA15-06
D706	0D157A0060	ERA15-06
D707	0D157A0060	ERA15-06
D708	0D157A0060	ERA15-06
D709	0D295A0080	1SS355
D710	0D295A0080	1SS355
D713	0D295A0080	1SS355
D714	0D295A0080	1SS355
D716	0D492A0020	UDZS 5.6B
D725	0D157A0060	ERA15-06
D729	0D491A0290	UDZ 30B
D730	0D291A0010	EC11FS4
D7501	0D279A0100	21DQ10 TA2B1
D7503	0D265A0020	ERA91-02
D7504	0D295A0080	1SS355
D7505	0D295A0080	1SS355

PACKAGED CIRCUITS

PC701	0H723A0010	PC123
PC704	0H723A0010	PC123
PC705	0H723A0010	PC123

COILS

L701	L1107RL502	FK-080G-5020H2
L704	0L115R1110	SK-10M-5YRP
L703		HKBS-12D080-9710RS

TRANSFORMERS

T7301	L2000BS026	2B26
PTC701	0D802A1010	PTH9M04BD222TS2F333

CAPACITORS

C700	0C247M4740	0.47	450V	Film
C701	0C245Q4740	0.47	AC250V	Film
C702	C3105MR100	10	400V	Electrolytic
C703	0C1H8Q2220	2200p	AC250V	Ceramic
C704	0C1H8Q2220	2200p	AC250V	Ceramic
C705	0C245Q4740	0.47	AC250V	Film
C706	0C247M4740	0.47	450V	
C707	C3124ML151	150	400V	Electrolytic
C708	0C3A0D1510	150	35V	Electrolytic
C709	0C195C1040	0.1	25V	Ceramic
C710	0C1B2S4700	47p	2kV	Ceramic
C711	0C1Q0A1060	10	6.3V	Ceramic
C712	0C195C1040	0.1	25V	Ceramic
C713	0C195C1040	0.1	25V	Ceramic
C714	C1102EC102	1000p	50V	Ceramic
C715	0C195C3330	0.033	25V	Ceramic

RDENCA010WJZZ

PFC UNIT (Continued)

Ref. No.	Part No.	★	Description			Code
C716	0C194E4710		470p	50V	Ceramic	
C717	0C195E1030		0.01	50V	Ceramic	
C718	0C195E1030		0.01	50V	Ceramic	
C719	0C194E3310		330p	50V	Ceramic	
C720	0C198E4740		0.47	50V	Ceramic	
C721	0C1A9R3310		330p	1kV	Ceramic	
C722	0C1B2S4700		47p	2kV	Ceramic	
C723	0C1H8Q3320		3300p	AC250V	Ceramic	
C724	0C194E3310		330p	50V	Ceramic	
C725	0C195C1040		0.1	25V	Ceramic	
C726	0C195E1030		0.01	50V	Ceramic	
C727	0C1H8Q4710		470p	AC250V	Ceramic	
C728	0C1H8Q2220		2200p	AC250V	Ceramic	
C729	0C195E1030		0.01	50V	Ceramic	
C730	0C1H8Q1020		1000p	AC250V	Ceramic	
C731	0C1H8Q1020		1000p	AC250V	Ceramic	
C734	0C377M1R00		1	400V	Electrolytic	
C7501	0C3A0A1020		1000	10V	Electrolytic	
C7502	0C195C1040		0.1	25V	Ceramic	
C7503	0C195C1040		0.1	25V	Ceramic	
C7504	0C195E1040		0.1	50V	Ceramic	
C7505	0C1Q0A1060		10	6.3V	Ceramic	
C7506	0C195C1040		0.1	25V	Ceramic	
C7507	0C198E4740		0.47	50V	Ceramic	
C7508	0C3A0B4710		470	16V	Electrolytic	
C7509	0C198E4740		0.47	50V	Ceramic	

RESISTORS

R701	R3107SC563		56K	1/16W		
R702	0R390T1540		150k	1/4W	Chip3216	
R703	0R390T1540		150k	1/4W	Chip3216	
R704	0R390T1540		150k	1/4W	Chip3216	
R705	R3107SC563		56K	1/16W		
R706	0R3Q4S1010		100	1/16W	Chip1608	
R707	0R522F1000		10	5W	Fuse Resistor	
R708	0R3Q4S1040		100k	1/16W		
R709	0R391T2240		220k	1/4W	Chip3216	
R710	0R391T2240		220k	1/4W	Chip3216	
R711	0R391T2240		220k	1/4W	Chip3216	
R712	0R3Q3V1000		10	1/10W	Chip2012	
R713	0R391T1840		180k	1/4W		
R714	0R391T1840		180k	1/4W		
R715	0R391T1840		180k	1/4W		
R716	0R516FR050		0.05	3W		
R717	0R3Q4S1240		1120k	1/16W	Chip1608	
R718	0R3Q4S2700		127	1/16W	Chip1608	
R719	0R390T3300		33	1/4W	Chip3216	
R720	0R3Q8S1820		1.8k	1/16W	Chip1608	
R721	0R3Q8S3630		36k	1/16W	Chip1608	
R722	0R3Q4S3330		33k	1/16W	Chip1608	
R723	0R390T4700		47	1/4W	Chip3216	
R724	0R3Q4S3940		390	1/16W	Chip1608	
R725	0R3Q8S2220		2.2k	1/16W	Chip1608	
R726	0R3Q4S1030		10k	1/16W	Chip1608	
R736	0R3Q8S1030		10k	1/16W	Chip1608	
R765	0R390T3920		3.9k	1/4W		
R768	0R3Q4S2720		2.7k	1/16W	Chip1608	
R769	0R3Q8S6810		680	1/16W	Chip1608	
R771	0R390T0000		0	1/4W	Chip3216	
R772	0R391T1840		180k	1/4W		
R773	0R391T1840		180k	1/4W		
R774	0R391T1840		180k	1/4W		
R775	0R3Q8S5620		5.6k	1/16W	Chip1608	
R776	0R3Q0V3310		330	1/8W	Chip2012	
R777	0R3Q0V5620		5.6k	1/8W	Chip2012	
R778	0R3Q4S2230		22k	1/16W	Chip1608	
R779	0R3Q4S6840		680k	1/16W	Chip1608	
R780	0R3Q0V1030		10k	1/8W	Chip2012	
R781	0R3Q0V1030		10k	1/8W	Chip2012	
R783	0R3Q4S3340		330k	1/16W	Chip1608	
R784	0R3Q4S1020		1k	1/16W	Chip1608	
R785	0R3Q4S3320		3.3k	1/16W	Chip1608	
R791	0R390T8230		82k	1/4W	Chip3216	
R792	0R390T8230		82k	1/4W	Chip3216	
R793	0R390T8230		82k	1/4W	Chip3216	
R7466	0R3Q4S6810		680	1/16W	Chip1608	
R7467	0R3Q4S1020		1k	1/16W	Chip1608	
R7468	0R3Q4S1030		10k	1/16W	Chip1608	
R7469	0R3Q4S1030		10k	1/16W	Chip1608	
R7501	0R3Q4S2220		2.2k	1/16W	Chip1608	
R7502	0R3Q4S8210		820	1/16W	Chip1608	
R7503	0R3Q4S3330		33k	1/16W	Chip1608	
R7504	0R3Q8S3320		3.3k	1/16W	Chip1608	
R7505	0R3Q8S1520		1.5k	1/16W	Chip1608	
R7508	0R3Q8S1220		1.2k	1/16W	Chip1608	
R7509	0R3Q3V5610		560	1/10W	Chip2012	
R7514	0R3Q0V1030		10k	1/8W	Chip2012	
R7515	0R3Q4S1020		1k	1/16W	Chip1608	
R7516	0R390T1000		10	1/4W	Chip3216	
R7517	0R390T1000		10	1/4W	Chip3216	
R7518	0R390T1000		10	1/4W	Chip3216	
R7519	0R390T1000		10	1/4W	Chip3216	
R7520	0R3Q4S1030		10k	1/16W	Chip1608	
R7521	0R3Q4S2220		2.2k	1/16W	Chip1608	
R7522	0R3Q4S1030		10k	1/16W	Chip1608	
R7523	0R3Q4S1030		10k	1/16W	Chip1608	
R7524	0R3Q4S5620		5.6k	1/16W	Chip1608	
R7525	0R3Q0V2720		2.7k	1/8W		
R7526	0R3Q0V2720		2.7k	1/8W		

MISCELLANEOU PARTS

RL701	K3102AL001	DG5D2-0(M)
BEA701	0L551A0020	BL02RN2-R62 T2
BEA703	0L551A0010	BL02RN1-R62 T2
BEA704		BPR53RA035013030M
F701	0K718A6R30	AC250V 6.3AH 215
FH1	0M850A0010	TP00351-51
FH2	0M850A0010	TP00351-51
CN701	K2105SL001	NC-179-L2
CN702	0K251A0020	B2P3-VH
CN704	0K248A0050	B5B-EH-A
CN7001	K2102FS013	TWG-P13P-A1
CN7002	0WPF2014A0	CONNECTOR
CN7003	0K202B0020	B2B-PH-K-S
CN7004	0K248A0020	B2B-EH-A
CN7103	K2106KS012	MDF7-12D-2.54DSA(01)
HS1	0MPF002800	Shield
HS2	0MPF002900	Shield

CPCi-0057CE01
PC I/F UNIT

INTEGRATED CIRCUITS

Ref. No.	Part No.	★	Description	Code
IC3	9DK001-11020		AT24C128N-10SC-1.8	
IC4	9DK001-15115		PQ05VY3H3Z	
IC5	RH-iXA148WJZZQ		LH28F640BXXE	
IC6	9DK001-15118		PST9229	
IC7	RH-iXA147WJZZQ		HD6417709SBP133V	
IC8	9DK001-15112		PQ033EZ01	
IC10	9DK001-15117		PST9222	
IC11	9DK001-11023		24LC21A-/SN	
IC13	9DK001-15113		AD9888	
IC15	9DK001-15119		SAA7118E	
IC16	9DK001-12xxx		NC7SZ08P5X	
IC25	RH-iXA091WJZZQ		CVIC2	
IC29	RH-iX3399CEN1		IX3399	
IC28	9KD001-11028		HY57V641620HGT-H	
IC30	9KD001-11028		HY57V641620HGT-H	
IC319	9KD001-11024		HY57V653220BTC-7	
IC320	9KD001-11024		HY57V653220BTC-7	
IC321	9KD001-11024		HY57V653220BTC-7	
IC322	9KD001-11024		HY57V653220BTC-7	
IC330	9DK001-15089		TL712CPW	
IC331	9DK001-15089		TL712CPW	
IC298	9DK001-15090		SiI151A	
IC363	9DK001-12107		74VHC153MTC	
IC364	9DK001-15114		PQ070XZ01	
IC365	9DK001-12103		74LCX157MTC	
IC366	9DK001-12105		74LVX125MTC	

TRANSISTORS

Ref. No.	Part No.	★	Description	Code
Q1	9DK001-20012		2SA1037AKQ	
Q2	9DK001-20012		2SA1037AKQ	
Q3	9DK001-20012		2SA1037AKQ	
Q4	9DK001-20037		HN2C01FU	
Q5	9DK001-20012		2SA1037AKQ	

DIODES

Ref. No.	Part No.	★	Description	Code
D5	9DK001-30018		1SS187	
D9	9DK001-30018		1SS187	
D28	9DK001-30018		1SS187	
D29	9DK001-30018		1SS187	
D30	9DK001-30015		MA157A	
D31	9DK001-30015		MA157A	
D33	9DK001-30018		1SS187	
D34	9DK001-30018		1SS187	
D35	9DK001-30018		1SS187	
D36	9DK001-30015		MA157A	
D37	9DK001-30015		MA157A	
D38	9DK001-30015		MA157A	
D39	9DK001-30015		MA157A	
D40	9DK001-30015		MA157A	
D41	9DK001-30015		MA157A	
D43	9DK001-30015		MA157A	
D44	9DK001-30015		MA157A	
D45	9DK001-30015		MA157A	
D46	9DK001-30015		MA157A	
D47	9DK001-30015		MA157A	

PACKAGED CIRCUITS

Ref. No.	Part No.	★	Description	Code
X1	9DK001-80xxx		CX-53F(16.588MHz)	
X4	9DK001-80018		FXO-31FL(25.000MHz)	
X5	9DK001-80024		FXO-31FL(32.500MHz)	
X6	9DK001-80		CX-53F(24.576MHz)	
X7	9DK001-80015		MC-206(32.768kHz)	
RMC1	9DK001-15121		TSOP1838SS3V	

COILS AND FILTERS

Ref. No.	Part No.	★	Description	Code
L3	9DK001-81059		NLC322522T-1R0M 1.0uH	
L4	9DK001-81052		NLC322522T-3R3M 3.3uH	
L5	9DK001-81052		NLC322522T-3R3M 3.3uH	
L6	9DK001-81062		BLM21P221SG	
L7	9DK001-81062		BLM21P221SG	
L8	9DK001-81062		BLM21P221SG	
L11	9DK001-81052		NLC322522T-3R3M 3.3uH	
L12	9DK001-81052		NLC322522T-3R3M 3.3uH	
L13	9DK001-81062		BLM21P221SG	
L14	9DK001-81052		NLC322522T-3R3M 3.3uH	
L15	9DK001-81062		BLM21P221SG	
L20	9DK001-81044		BLM21B201S	
L21	9DK001-81044		BLM21B201S	
L22	9DK001-81052		NLC322522T-3R3M 3.3uH	
FL1	9DK001-82021		BMS100	
FL2	9DK001-82021		BMS100	
FL3	9DK001-81020		BMK351	
FL41	9DK001-81020		BMK351	
FL94	9DK001-81020		BMK351	
FL98	9DK001-82021		BMS100	
FL99	9DK001-82021		BMS100	
FL103	9DK001-81020		BMK351	
FL107	9DK001-82021		BMS100	
FL108	9DK001-82021		BMS100	
FL109	9DK001-82021		BMS100	
FL110	9DK001-82021		BMS100	
FL111	9DK001-82xxx		NFA31GD1004704	
FL112	9DK001-82xxx		NFA31GD1004704	
FL113	9DK001-82xxx		NFA31GD1004704	
FL114	9DK001-82021		BMS100	
FL115	9DK001-82xxx		NFA31GD1004704	
FL116	9DK001-82xxx		NFA31GD1004704	
FL117	9DK001-82xxx		NFA31GD1004704	
FL118	9DK001-82xxx		NFA31GD1004704	
FL119	9DK001-82xxx		NFA31GD1004704	

CAPACITORS

Ref. No.	Part No.	★			Description	Code
C3	9DK001-42		0.1	25V	Ceramic	
C4	9DK001-42099		100p	50V	Ceramic	
C5	9DK001-42105		0.047	50V	Ceramic	
C6			10p	50V	Ceramic	
C7	9DK001-42		1	6.3V	Ceramic	
C8	9DK001-42		0.1	25V	Ceramic	
C9	9DK001-42		0.1	25V	Ceramic	
C10	9DK001-42131		10	10V	Ceramic	
C12	9DK001-42103		15p	50V	Ceramic	
C13	9DK001-42103		15p	50V	Ceramic	
C14	9DK001-42		1	6.3V	Ceramic	
C15	9DK001-42131		10	10V	Ceramic	
C16	9DK001-42		0.1	25V	Ceramic	
C17	9DK001-42		1	6.3V	Ceramic	
C18	9DK001-42128		1000p		Ceramic	
C19	9DK001-42104		470p	50V	Ceramic	
C20	9DK001-42104		470p	50V	Ceramic	
C21	9DK001-40081		22	6.3V	Electrolytic	
C22	9DK001-42		1	6.3V	Ceramic	
C23	9DK001-42		1	6.3V	Ceramic	
C24	9DK001-42		0.1	25V	Ceramic	
C25	9DK001-42131		10	10V	Ceramic	
C26	9DK001-42		0.1	25V	Ceramic	
C27	9DK001-42105		0.047	50V	Ceramic	
C28	9DK001-42105		0.047	50V	Ceramic	
C29	9DK001-42105		0.047	50V	Ceramic	
C30	9DK001-42		0.1	25V	Ceramic	
C31	9DK001-42		1	6.3V	Ceramic	
C33	9DK001-42		1	6.3V	Ceramic	
C35	9DK001-40089		47	6.3V	Electrolytic	
C36	9DK001-42131		10	10V	Ceramic	
C37	9DK001-42113		4.7	10V	Ceramic	
C38	9DK001-42105		0.047	50V	Ceramic	
C39	9DK001-40089		47	6.3V	Electrolytic	
C40	9DK001-42105		0.047	50V	Ceramic	
C41	9DK001-42105		0.047	50V	Ceramic	
C42	9DK001-40091		100	4V	Electrolytic	
C43	9DK001-42105		0.047	50V	Ceramic	
C44	9DK001-42105		0.047	50V	Ceramic	
C45	9DK001-42105		0.047	50V	Ceramic	
C46	9DK001-42103		15p	50V	Ceramic	
C47	9DK001-42103		15p	50V	Ceramic	
C48	9DK001-40081		22	6.3V	Electrolytic	
C49	9DK001-42		0.1	25V	Ceramic	

CPCi-0057CE01
PC I/F UNIT (Continued)

Ref. No.	Part No.	★	Description		Code
C50	9DK001-40081		22	6.3V	Electrolytic
C51	9DK001-42		1	6.3V	Ceramic
C52	9DK001-42		0.1	25V	Ceramic
C53	9DK001-42		0.1	25V	Ceramic
C54	9DK001-42		0.1	25V	Ceramic
C55	9DK001-42		0.1	25V	Ceramic
C56	9DK001-42		0.1	25V	Ceramic
C57	9DK001-40xxx		PX4VC150MF60		
C58	9DK001-42105		0.047	50V	Ceramic
C59	9DK001-42105		0.047	50V	Ceramic
C60	9DK001-42		0.1	25V	Ceramic
C61	9DK001-42		1	6.3V	Ceramic
C62	9DK001-42105		0.047	50V	Ceramic
C63	9DK001-42		0.1	25V	Ceramic
C64	9DK001-42		0.1	25V	Ceramic
C65	9DK001-42		0.1	25V	Ceramic
C66	9DK001-40091		100	4V	Electrolytic
C69	9DK001-42096		0.01	50V	Ceramic
C70	9DK001-42105		0.047	50V	Ceramic
C71	9DK001-42096		0.01	50V	Ceramic
C72	9DK001-42		0.1	25V	Ceramic
C73	9DK001-42		0.1	25V	Ceramic
C74	9DK001-42		0.1	25V	Ceramic
C75	9DK001-42		0.1	25V	Ceramic
C76	9DK001-42		0.1	25V	Ceramic
C77	9DK001-42		0.1	25V	Ceramic
C78	9DK001-42105		0.047	50V	Ceramic
C81	9DK001-42105		0.047	50V	Ceramic
C82	9DK001-42154		0.33	10V	Ceramic
C83	9DK001-40081		22	6.3V	Electrolytic
C85	9DK001-42		0.1	25V	Ceramic
C140	9DK001-42105		0.047	50V	Ceramic
C141	9DK001-42105		0.047	50V	Ceramic
C142	9DK001-42105		0.047	50V	Ceramic
C150	9DK001-42		0.1	25V	Ceramic
C151	9DK001-42		0.1	25V	Ceramic
C152	9DK001-42		0.1	25V	Ceramic
C153	9DK001-42		0.1	25V	Ceramic
C154	9DK001-42		0.1	25V	Ceramic
C155	9DK001-42		0.1	25V	Ceramic
C156	9DK001-42		0.1	25V	Ceramic
C157	9DK001-42		0.1	25V	Ceramic
C158	9DK001-42		0.1	25V	Ceramic
C159	9DK001-42		0.1	25V	Ceramic
C160	9DK001-42		0.1	25V	Ceramic
C161	9DK001-42		0.1	25V	Ceramic
C162	9DK001-42		0.1	25V	Ceramic
C163	9DK001-42		0.1	25V	Ceramic
C164	9DK001-42		0.1	25V	Ceramic
C165	9DK001-42		0.1	25V	Ceramic
C166	9DK001-42xxx		3900p	16V	Film
C167	9DK001-42xxx		0.039	16V	Film
C169	9DK001-42		0.1	25V	Ceramic
C170	9DK001-42		0.1	25V	Ceramic
C171	9DK001-42		0.1	25V	Ceramic
C174	9DK001-42		0.1	25V	Ceramic
C176	9DK001-42		0.1	25V	Ceramic
C177	9DK001-42		0.1	25V	Ceramic
C192	9DK001-42		0.1	25V	Ceramic
C197	9DK001-42		0.1	25V	Ceramic
C205	9DK001-42		0.1	25V	Ceramic
C214	9DK001-42		0.1	25V	Ceramic
C218	9DK001-42		0.1	25V	Ceramic
C366	9DK001-40091		100	4V	Electrolytic
C375	9DK001-40091		100	4V	Electrolytic
C437	9DK001-42099		100p	50V	Ceramic
C438	9DK001-42099		100p	50V	Ceramic
C439	9DK001-42099		100p	50V	Ceramic
C440	9DK001-42099		100p	50V	Ceramic
C441	9DK001-40081		22	6.3V	Electrolytic
C442	9DK001-42		1	6.3V	Ceramic
C444	9DK001-42099		100p	50V	Ceramic

Ref. No.	Part No.	★	Description		Code
C447	9DK001-42131		10	10V	Ceramic
C448	9DK001-42122		180p	50V	Ceramic
C449	9DK001-42122		180p	50V	Ceramic
C450	9DK001-42122		180p	50V	Ceramic
C454	9DK001-42131		10	10V	Ceramic
C457	9DK001-42123		330p	50V	Ceramic
C458	9DK001-42123		330p	50V	Ceramic
C459	9DK001-42123		330p	50V	Ceramic
C465	9DK001-42123		330p	50V	Ceramic
C468	9DK001-42123		330p	50V	Ceramic
C569	9DK001-42		0.1	25V	Ceramic
C571	9DK001-40076		4.7	35V	Electrolytic
C575	9DK001-42		0.1	25V	Ceramic
C576	9DK001-42		1	6.3V	Ceramic
C577	9DK001-42		1	6.3V	Ceramic
C578	9DK001-42		1	6.3V	Ceramic
C579	9DK001-42		1	6.3V	Ceramic
C580	9DK001-42		0.1	25V	Ceramic
C581	9DK001-42		1	6.3V	Ceramic
C582	9DK001-42		1	6.3V	Ceramic
C583	9DK001-42		1	6.3V	Ceramic
C584	9DK001-42		0.1	25V	Ceramic
C585	9DK001-42		0.1	25V	Ceramic
C586	9DK001-42		1	6.3V	Ceramic
C589	9DK001-42		1	6.3V	Ceramic
C590	9DK001-42		1	6.3V	Ceramic
C591	9DK001-42		1	6.3V	Ceramic
C592	9DK001-42		1	6.3V	Ceramic
C593	9DK001-42		1	6.3V	Ceramic
C594	9DK001-42		0.1	25V	Ceramic
C595	9DK001-42		0.1	25V	Ceramic
C596	9DK001-42		1	6.3V	Ceramic
C597	9DK001-42		0.1	25V	Ceramic
C598	9DK001-42		1	6.3V	Ceramic
C599	9DK001-42		1	6.3V	Ceramic
C600	9DK001-42		0.1	25V	Ceramic
C601	9DK001-42		0.1	25V	Ceramic
C602	9DK001-40091		100	4V	Electrolytic
C603	9DK001-42		0.1	25V	Ceramic
C607	9DK001-42		0.1	25V	Ceramic
C609	9DK001-42		0.1	25V	Ceramic
C611	9DK001-42		0.1	25V	Ceramic
C613	9DK001-42		0.1	25V	Ceramic
C615	9DK001-42		0.1	25V	Ceramic
C617	9DK001-42		0.1	25V	Ceramic
C619	9DK001-42		0.1	25V	Ceramic
C621	9DK001-42		0.1	25V	Ceramic
C623	9DK001-42		0.1	25V	Ceramic
C625	9DK001-42		0.1	25V	Ceramic
C627	9DK001-42		0.1	25V	Ceramic
C629	9DK001-42		0.1	25V	Ceramic
C631	9DK001-42		0.1	25V	Ceramic
C633	9DK001-42		0.1	25V	Ceramic
C635	9DK001-42		0.1	25V	Ceramic
C637	9DK001-42		0.1	25V	Ceramic
C638	9DK001-42		0.1	25V	Ceramic
C640	9DK001-42		0.1	25V	Ceramic
C641	9DK001-42		0.1	25V	Ceramic
C648	9DK001-42		0.1	25V	Ceramic
C649	9DK001-42		0.1	25V	Ceramic
C656	9DK001-42		0.1	25V	Ceramic
C658	9DK001-42		0.1	25V	Ceramic
C662	9DK001-42		0.1	25V	Ceramic
C666	9DK001-42096		0.01	50V	Ceramic
C668	9DK001-42		0.1	25V	Ceramic
C670	9DK001-42		0.1	25V	Ceramic
C672	9DK001-42		0.1	25V	Ceramic
C678	9DK001-42		0.1	25V	Ceramic
C682	9DK001-42		0.1	25V	Ceramic
C685	9DK001-42		0.1	25V	Ceramic
C686	9DK001-42		0.1	25V	Ceramic
C687	9DK001-42		0.1	25V	Ceramic
C688	9DK001-42		0.1	25V	Ceramic
C689	9DK001-42		0.1	25V	Ceramic
C695			10p	50V	Ceramic
C696			10p	50V	Ceramic

CPCi-0057CE01
PC I/F UNIT (Continued)

Ref. No.	Part No.	★	Description		Code
C697	9DK001-42		0.1	25V	Ceramic
C708	9DK001-40090		47	4V	Electrolytic
C744	9DK001-42		0.1	25V	Ceramic
C745	9DK001-42		0.1	25V	Ceramic
C746	9DK001-42112		33p	50V	Ceramic
C747	9DK001-42		0.1	25V	Ceramic
C748	9DK001-42		0.1	25V	Ceramic
C749	9DK001-42112		33p	50V	Ceramic
C750	9DK001-42		0.1	25V	Ceramic
C752	9DK001-42113		4.7	10V	Ceramic
C758			10p	50V	Ceramic
C759	9DK001-42		0.1	25V	Ceramic
C901	9DK001-42		0.1	25V	Ceramic
C902	9DK001-42		1	6.3V	Ceramic
C904	9DK001-42		0.1	25V	Ceramic
C905	9DK001-42		0.1	25V	Ceramic
C906	9DK001-42		0.1	25V	Ceramic
C909	9DK001-42		1	6.3V	Ceramic
C910	9DK001-42		0.1	25V	Ceramic
C911	9DK001-42		1	6.3V	Ceramic
C912	9DK001-42		1	6.3V	Ceramic
C913	9DK001-42		1	6.3V	Ceramic
C914	9DK001-42		1	6.3V	Ceramic
C915	9DK001-42		0.1	25V	Ceramic
C916			10p	50V	Ceramic
C917	9DK001-42		1	6.3V	Ceramic
C918	9DK001-42		0.1	25V	Ceramic
C919	9DK001-40xxx		PX4VC150MF60		
C920			10p	50V	Ceramic
C921	9DK001-40091		100	4V	Electrolytic
C922	9DK001-42154		0.33	10V	Ceramic
C923	9DK001-42		0.1	25V	Ceramic
C924	9DK001-42		0.1	25V	Ceramic
C925	9DK001-42131		10	10V	Ceramic

RESISTORS

R1	9DK001-51030		10k	1/16W	
R2	9DK001-50149		0	1/16W	Chip
R3	9DK001-50179		2.2k	1/16W	Chip1608
R4	9DK001-50149		0	1/16W	Chip
R8	9DK001-51030		10k	1/16W	
R9	9DK001-50219		47k	1/16W	Chip1608
R12	9DK001-50185		10k	1/16W	Chip1608
R13	9DK001-50165		100	1/16W	Chip1608
R14	9DK001-50		100	1/4W	Chip3216
R17	9DK001-50183		4.7k	1/16W	Chip1608
R18	9DK001-50177		1k	1/16W	Chip1608
R19	9DK001-50149		0	1/16W	Chip
R20	9DK001-50183		4.7k	1/16W	Chip1608
R22	9DK001-51030		10k	1/16W	
R23	9DK001-50149		0	1/16W	Chip
R25	9DK001-51030		10k	1/16W	
R26	9DK001-51037		6.8k	1/16W	Chip
R27	9DK001-51030		10k	1/16W	
R28	9DK001-50149		0	1/16W	Chip
R29	9DK001-50275		6.8	1/16W	Chip1608
R32	9DK001-50150		10	1/16W	Chip1608
R33	9DK001-50161		47	1/16W	Chip1608
R34	9DK001-50185		10k	1/16W	Chip1608
R35	9DK001-50185		10k	1/16W	Chip1608
R36	9DK001-50177		1k	1/16W	Chip1608
R37	9DK001-50159		22	1/16W	Chip1608
R38	9DK001-50150		10	1/16W	Chip1608
R39	9DK001-50150		10	1/16W	Chip1608
R40	9DK001-50044		68	1/10W	Chip2125
R41	9DK001-50275		6.8	1/16W	Chip1608
R42	9DK001-50159		22	1/16W	Chip1608
R45	9DK001-50044		68	1/10W	Chip2125
R46	9DK001-50275		6.8	1/16W	Chip1608
R47	9DK001-50159		22	1/16W	Chip1608
R48	9DK001-50044		68	1/10W	Chip2125
R50	9DK001-50149		0	1/16W	Chip
R51	9DK001-50149		0	1/16W	Chip
R54	9DK001-50149		0	1/16W	Chip
R63	9DK001-50		1.07k	1/16W	Chip1608
R64	9DK001-50213		2.0k	1/16W	Chip1608
R65	9DK001-50181		3.3k	1/16W	Chip1608
R66	9DK001-50181		3.3k	1/16W	Chip1608
R67	9DK001-51037		6.8k	1/16W	Chip
R69	9DK001-50149		0	1/16W	Chip
R70	9DK001-50		150	1/10W	Chip2125
R71	9DK001-50		150	1/10W	Chip2125
R72	9DK001-50		150	1/10W	Chip2125
R73	9DK001-50185		10k	1/16W	Chip1608
R74	9DK001-50185		10k	1/16W	Chip1608
R75	9DK001-50159		22	1/16W	Chip1608
R80	9DK001-50044		68	1/10W	Chip2125
R83	9DK001-50159		22	1/16W	Chip1608
R88	9DK001-50044		68	1/10W	Chip2125
R89	9DK001-50149		0	1/16W	Chip
R91	9DK001-50159		22	1/16W	Chip1608
R93	9DK001-50300		18	1/10W	Chip2125
R96	9DK001-50044		68	1/10W	Chip2125
R97	9DK001-50185		10k	1/16W	Chip1608
R104	9DK001-50149		0	1/16W	Chip
R105	9DK001-50149		0	1/16W	Chip
R106	9DK001-50149		0	1/16W	Chip
R107	9DK001-50149		0	1/16W	Chip
R109	9DK001-51037		6.8k	1/16W	Chip
R110	9DK001-51037		6.8k	1/16W	Chip
R111	9DK001-50149		0	1/16W	Chip
R113	9DK001-50149		0	1/16W	Chip
R114	9DK001-50297		39	1/16W	Chip1608
R116	9DK001-50300		18	1/10W	Chip2125
R117	9DK001-50298		120	1/4W	Chip3216
R118	9DK001-50149		0	1/16W	Chip
R119	9DK001-50149		0	1/16W	Chip
R121	9DK001-50292		3.9	1/4W	Chip3216
R122	9DK001-50292		3.9	1/4W	Chip3216
R123	9DK001-50149		0	1/16W	Chip
R124	9DK001-50149		0	1/16W	Chip
R127	9DK001-50149		0	1/16W	Chip
R130	9DK001-50173		470	1/16W	Chip1608
R131	9DK001-50159		22	1/16W	Chip1608
R134	9DK001-50149		0	1/16W	Chip
R138	9DK001-50177		1k	1/16W	Chip1608
R139	9DK001-50177		1k	1/16W	Chip1608
R140	9DK001-50177		1k	1/16W	Chip1608
R143	9DK001-50177		1k	1/16W	Chip1608
R151	9DK001-5		560	1/16W	Chip1608
R152	9DK001-42105		0.047	50V	Ceramic
R153	9DK001-42105		0.047	50V	Ceramic
R155	9DK001-42105		0.047	50V	Ceramic
R156	9DK001-42105		0.047	50V	Ceramic
R158	9DK001-42105		0.047	50V	Ceramic
R159	9DK001-42105		0.047	50V	Ceramic
R160	9DK001-42105		0.047	50V	Ceramic
R161	9DK001-50201		18	1/16W	Chip1608
R162	9DK001-50183		4.7k	1/16W	Chip1608
R165	9DK001-50181		3.3k	1/16W	Chip1608
R166	9DK001-50149		0	1/16W	Chip
R170	9DK001-50150		10	1/16W	Chip1608
R172	9DK001-50185		10k	1/16W	Chip1608
R174	9DK001-50149		0	1/16W	Chip
R176	9DK001-50224		150	1/4W	Chip3216
R178	9DK001-50185		10k	1/16W	Chip1608
R180	9DK001-50149		0	1/16W	Chip
R191	9DK001-50150		10	1/16W	Chip1608
R192	9DK001-50150		10	1/16W	Chip1608
R193	9DK001-50150		10	1/16W	Chip1608
R194	9DK001-50149		0	1/16W	Chip
R196	9DK001-50149		0	1/16W	Chip
R199	9DK001-51037		6.8k	1/16W	Chip
R201	9DK001-50149		0	1/16W	Chip
R648	9DK001-50165		100	1/16W	Chip1608
R649	9DK001-50165		100	1/16W	Chip1608
R654	9DK001-50204		150	1/16W	Chip1608
R685	9DK001-50150		10	1/16W	Chip1608

Ref. No.	Part No.	★	Description	Code
R688	9DK001-50201		15 1/16W Chip1608	
R689	9DK001-50173		470 1/16W Chip1608	
R690	9DK001-50205		1.8k 1/16W Chip1608	
R692	9DK001-50159		22 1/16W Chip1608	
R693	9DK001-50159		22 1/16W Chip1608	
R694	9DK001-50159		22 1/16W Chip1608	
R695	9DK001-50159		22 1/16W Chip1608	
R696	9DK001-50185		10k 1/16W Chip1608	
R697	9DK001-50185		10k 1/16W Chip1608	
R698	9DK001-50185		10k 1/16W Chip1608	
R699	9DK001-50185		10k 1/16W Chip1608	
R700	9DK001-50218		20k 1/16W Chip1608	
R701	9DK001-50257		75 1/16W Chip1608	
R704	9DK001-50185		10k 1/16W Chip1608	
R750	9DK001-50177		1k 1/16W Chip1608	
R751	9DK001-50177		1k 1/16W Chip1608	
R752	9DK001-50170		270 1/16W Chip1608	
R753	9DK001-50170		270 1/16W Chip1608	
R787	9DK001-50244		3.9k 1/16W Chip1608	
R788	9DK001-50177		1k 1/16W Chip1608	
R789	9DK001-50177		1k 1/16W Chip1608	
R790	9DK001-50179		2.2k 1/16W Chip1608	
R791	9DK001-50244		3.9k 1/16W Chip1608	
R792	9DK001-50179		2.2k 1/16W Chip1608	
R801	9DK001-50205		1.8k 1/16W Chip1608	
R867	9DK001-50275		6.8 1/16W Chip1608	
R868	9DK001-50275		6.8 1/16W Chip1608	
R869	9DK001-50275		6.8 1/16W Chip1608	
R977	9DK001-50150		10 1/16W Chip1608	
R994	9DK001-50236		910 1/16W Chip1608	
R995	9DK001-50199		2.15k 1/16W Chip1608	
R998	9DK001-50177		1k 1/16W Chip1608	
R999	9DK001-50		39 1/10W Chip2125	
RE1	9DK001-94001		FTR-B3 GA 003Z-B10	
RE2	9DK001-94001		FTR-B3 GA 003Z-B10	

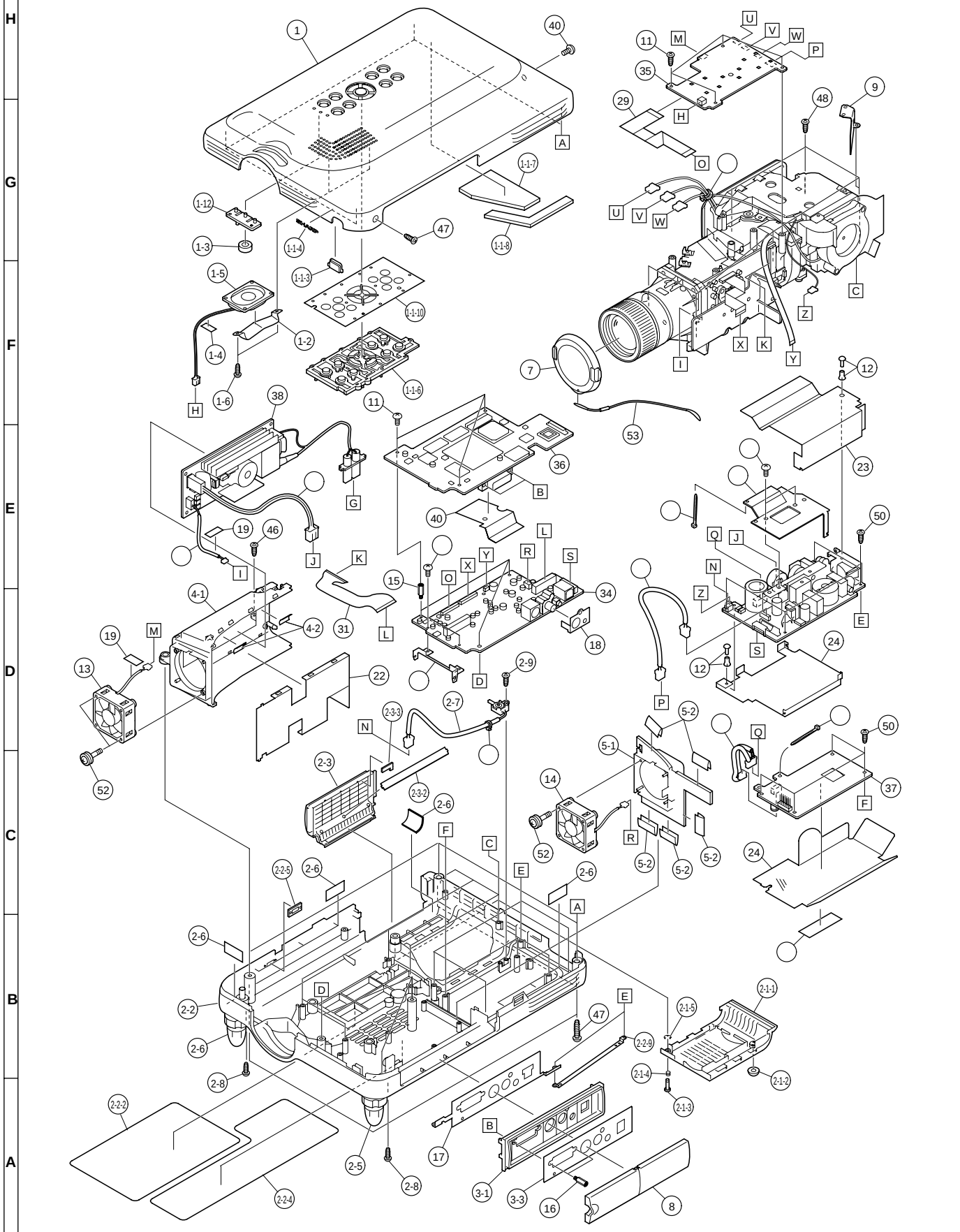
CPCi-0057CE01

PC I/F UNIT (Continued)

MISCELLANEOUS PARTS

P1	9DK001-60053		74320-1004
P8	9DK001-60077		FX8C-80P-SV4
P9	9DK001-60075		FX6-40P-0.8SV
SC1	9DK001-60076		FH16-80S-0.3SHW
	PSLDCA002WJZZ		Shield

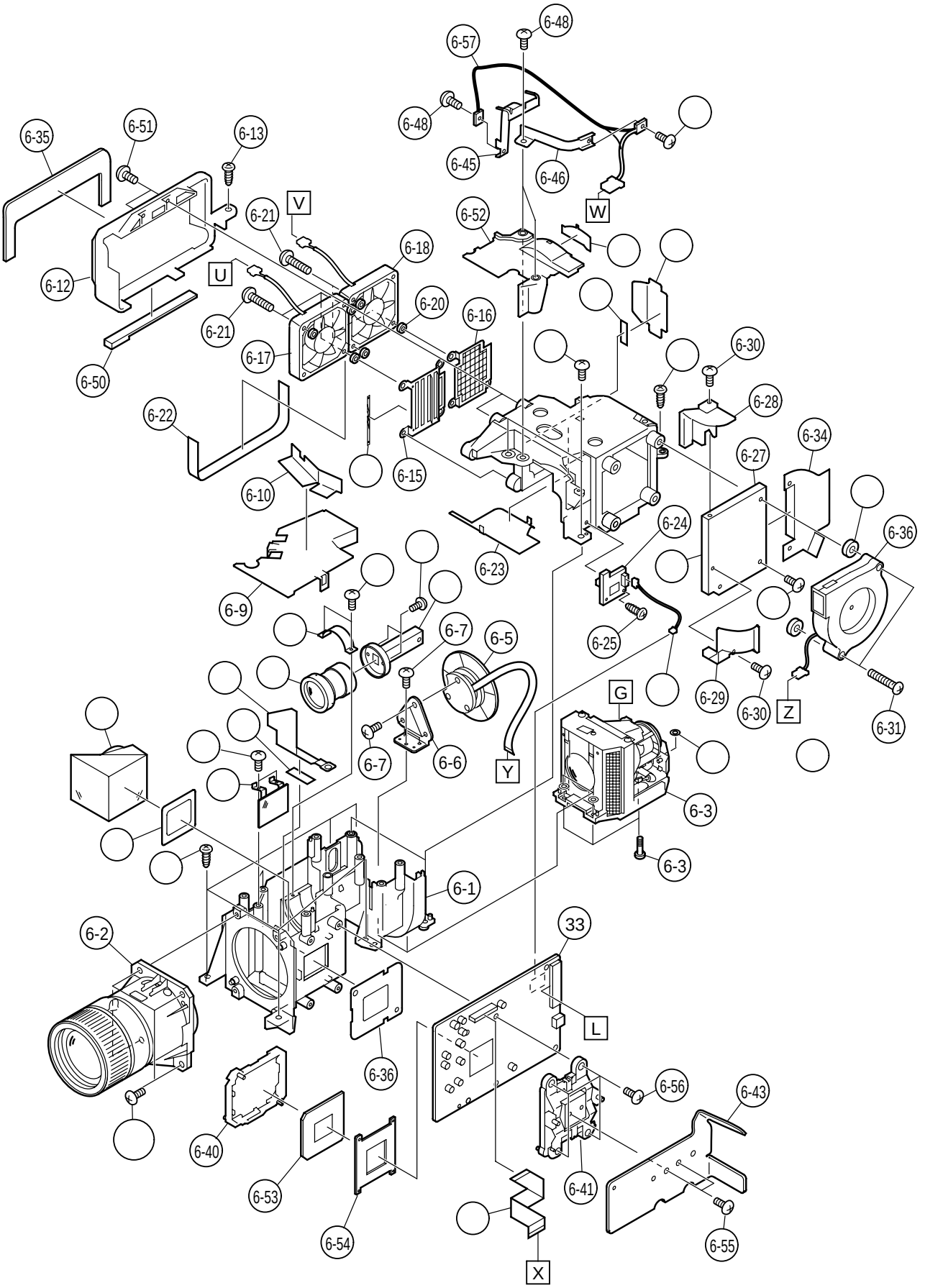
CABINET AND MECHANICAL PARTS



CABINET AND MECHANICAL PARTS

Ref. No.	Part No.	★	Description	Code
1	*Not Available*	–	Top Body Unit	—
1-1	DBDYT1210CE01		Top Body Ass'y	BL
1-1-1	Not Available	–	Top Body	—
1-1-2	GCOVA2089CESA		LED Cover	AD
1-1-3	GCOVA2090CESA		RC Cover	AD
1-1-4	HBDGB3168CESA		Badge, "SHARP"	
1-1-5	HiNDPA057WJSA		IQ Label	
1-1-6	JBTN-2090CESA		Operation Button	AR
1-1-7	PSLDHA006WJK0		Heat Shield	
1-1-8	PSLDHA007WJK0		Heat Shielding Sheet	
1-1-9	PSPAZA025WJZZ		Tape	
1-1-10	QEARPA021WJFW		Earth Angle	
1-2	LANGS0127CEFW		Speaker Fixing Angle	AF
1-3	PMLT-A006WJZZ		Spacer	
1-4	RSP-ZA004WJN1		Speaker	AQ
1-5	XEPSD26P06000		Screw, x2	AA
2	CBDYU1143CE01	J	Bottom Body Unit	
2-1	*Not Available*	–	Lamp Door Unit	—
2-1-1	DDORU1019CE01		Lamp Door Ass'y	
2-1-2	*Not Available*	–	Lamp Door	
2-1-3	GLEGP9135CESA		Leg(Rear)	AD
2-1-4	LX-BZ3449CEFF		Screw, x1	
2-1-5	MSPRC0215CEFW		Spring	
2-1-6	XREUW20-04000		E-ring	AA
2-2	DBDYU1143CE01		Bottom Body Ass'y	BM
2-2-1	*Not Available*	–	Bottom Body	—
2-2-2	HiNDP5957CEZZ		Model Label	
2-2-3	HiNDP5958CEZZ		Caution Label	
2-2-4	HiNDPA050WJSA		Heat Caution Label	
2-2-5	LANGF2155CEFW		Kensington Security Standard Connector	AD
2-2-6	LHLDZ2193CEK0		Holder	
2-2-7	LX-NZ3183CEFW		Insert Nut, x3	AD
2-2-8	LX-NZ3184CEFW		Insert Nut, x4	AD
2-2-9	QEARP0007WJFW		Earth Angle	AD
2-3	DCOVA2092CE01		Exhaust Cover Ass'y	
2-3-1	*Not Available*	–	Exhaust Cover	—
2-3-2	PSLDHA002WJK0		Spacer, Heat Shielding	
2-3-3	PSLDWA001WJKZ		Punching, Exhaust Cover	
2-4	GLEGP1034CESA		Leg, Right	AM
2-5	GLEGP3034CESA		Leg, Left	AM
2-6	PSPAT0013CEZZ		Tape	AC
2-7	QCNW-A317WJZZ		Leaf SW	AF
2-8	XEBSD26P08000		Screw, x2	AA
2-9	XEBSN26P08000		Screw, x4	AA
3	*Not Available*	J	Terminal Cover Unit	
3-1	DCOVA2091CE01		Terminal Cover Ass'y	AT
3-2	*Not Available*	–	Terminal Cver	—
3-3	HiNDP5954CESA		Indicatio Label	AD
4	CHLDZ2191CE01	J	Ballast Unit Holder Ass'y	
4-1	*Not Available*	–	Ballast Unit Holder	—
4-2	PSPAT0013CEZZ		Tape, x2	AC
4-3	PSPAZA035WJZZ		Spacer, x2	
5	CHLDZ2200CE01	J	Fan Holder Ass'y	
5-1	*Not Available*	–	Fan Holder	—
5-2	PMLT-A007WJZZ		Spacer, x5	
6	Refer to Optical Mechanism Parts			
7	CCAPHA001WJ01		Lens Cap	
8	GCOVD0103CESA	J	Terminal Cover	
9	LANGHA001WJFW		Cover Angle	
10	LHLDW0106CEZZ	J	Holder	AF
11	LX-BZ3248CEFD	J	Screw, x5	AA
12	LX-LZ1011GE00	J	Clip Screw, x2	AC
13	NFANR0129CEZZ	J	Cooling Fan	AU
14	NFANR0130CEZZ	J	Cooling Fan	AU
15	NSFTZ0170CEFW	J	Hexagon Screw, x3	AD
16	NSFTZ0183CEFW	J	Hexagon Screw, x2	AD
17	PSLDM4719CEFW	J	Terminal Shield	AF
18	QEARPA033WJFW		Earth Angle	
19	PSPAT0013CEZZ	J	Tape, x14	AC
20	PSPAZA034WJZZ		Spacer for Fan, x7	
21	PSPAZA035WJZZ		Spacer for Fan, x4	
22	PZETK0143CEKZ	J	Ballast Unit Cover	AL
23	PZETK0144CEKZ	J	Cover(top)	AM
24	PZETK0145CEKZ	J	Cover(Bottom)	AL
25	PZETK0146CEKZ		Cover fot PFC Unit	
26	QCNW-A074WJZZ		Connecting Cord(CW)	AD
27	QCNW-A075WJZZ		Connecting Cord(BA)	AF
28	QCNW-A076WJZZ		Connecting Cord(FB)	AD
29	QCNW-A078WJZZ		Connecting Cord(KY)	AE
30	QCNW-A515WJZZ		Connecting Cord(DE)	
31	QPWBHB399WJZZ		Connecting Cord	
32	TLABN0433CEZZ	J	Serial No. Label(PG-M20XU)	
32	TLABN0458CEZZ	J	Serial No. Label(PG-M20XE)	
32	TLABNA002WJZZ		Serial No. Label(PG-M20XX)	
33	DUNTKB065DE01		Formatter Unit	
34	DUNTKB066DE01		Input Unit	
35	DUNTKB067DE01		Operation Unit	
36	CPCi-0057CE01	J	PC I/F Unit	CW
37	RDENCA004WJZZ		PFC Unit	BT
38	RDENCA005WJZZ		Ballast Unit	BZ
39	RDENCA010WJZZ		Power Unit	BP
40	PSLDCA002WJZZ		Noise Shield	
41	XBBSN26P06000	J	Screw	
42	XBPSD26P06JS0	J	Screw	AA
43	XBPSD30P08KS0	J	Screw	AA
44	XBPSD30P12JS0	J	Screw	AA
45	XBPSF30P06000	J	Screw	AA
46	XEBSD26P08000	J	Screw	AA
47	XEBSN26P08000	J	Screw	AA
48	XEBSN30P06000	J	Screw	AA
49	XEPSD26P09WS0	J	Screw	AB
50	XEPSF26P06000	J	Screw	AA
51	XEPSF30P25XS0	J	Screw	
52	UBNDT0013CEZZ	J	Lens Cap Strap	AF

OPTICS MECHANISM PARTS



Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code

OPTICS MECHANISM PARTS

6	CCHSK0106CE01		Optics Engine Ass'y
6-1	10A1018602		Optics Engine
6-2	PLNS-0243CEZZ		Projection Lens
6-3	CLMPFA001CE01		Lamp Case Ass'y
6-4			Screw, x4
6-5	RMOTBA001WJZZ		Color Wheel
6-6			Color Wheel Fixing Angle
6-7			Screw, x3
6-8	XBBSF26P05000		Screw, x4
6-9	11B1018812		Color Wheel Fixing Cover
6-10	49B1019446		Heat Shielding Plate
6-11	12B1018810		Lamp Box
6-12	71B1018838		Duct
6-13	XBPSF30P06000		Screw, x1
6-14	60B1035321		Spacer
6-15	72B1018840		Exhaust Punching
6-16	72B1019698		Exhaust Punching
6-17	NFANR0140CEZZ		Cooling Fan
6-18	NFANR0139CEZZ		Cooling Fan
6-19	60B1035437		Partation Plate
6-20	55B1035320		Oscillation Prevent Rubber, x6
6-21	53B1019321		Screw, x6
6-22	187B1019601		Tape
6-23	72B1018837		Shield(Top)
6-24	110A1018253		Sensor Unit Ass'y
6-25			Screw
6-26	NFANSA001WJZZ		Blow Fan
6-27	41B1019319		Lamp Fixing Plate
6-28	71B1019323		Lamp Cooling Duct(Upper)
6-29	71B1019327		Lamp Cooling Duct(Lower)
6-30	XBBSF26P05000		Screw, x2
6-31			Screw, x2
6-32	55B994086		Oscillation Prevent Washer, x2
6-33	XBPSF30P06000		Screw, x1
6-34	39B1035436		Exhaust Guide Plate
6-35	187B1035323		Tape
6-36	27B1018652		DMD Spacer
6-37	60B1018653		DMD Fixing Sapcer
6-38	XBPSD30P06J00		Screw, x2
6-39	XBBSF26P05000		Screw, x1
6-40	LHLDZ0140CEKZ		Outer Flame
6-41	CHLDZ0141CE01		Backer Plate Ass'y
6-41-1	LHLDZ0141CEKZ		Backer Plate
6-41-2	MSPRP0224CEFW		Stud Spring
6-41-3	PRDAR0113CEFW		Stud
6-42	XBPSD30P12JS0		Screw, x4
6-43	PRDAR0114CEFW		Heat Dissipation Plate
6-44	XBPSD30P08KS0		Screw, x2
6-45	LANGQA004WJ00		Thermistor Fixing Angle
6-46	LANGQA006WJFW		Thermistor Fixing Angle
6-47	PSPAKA006WJZZ		Spacer for Thermistor
6-48	XBBSF26P05000		Screw, x3
6-49	PSPAZA051WJZZ		Spacer for Exhaust Duct
6-50	PSPAZA058WJZZ		Spacer fot Exhaust Duct(Lower)
6-51	XBPSF30P06000		Screw, x1
6-52	PCOVNA002WJK0		Exhaust Guide Plate
6-53	RDMDPA002WJZZ		DMD Unit
6-54	QSOCZA015WJZZ		C-spring
6-55	XBPSD30P08KS0		Screw, x2
6-56	XBPSD30P12JS0		Screw, x4
6-57	QCNW-A522WJZZ		Thermistor

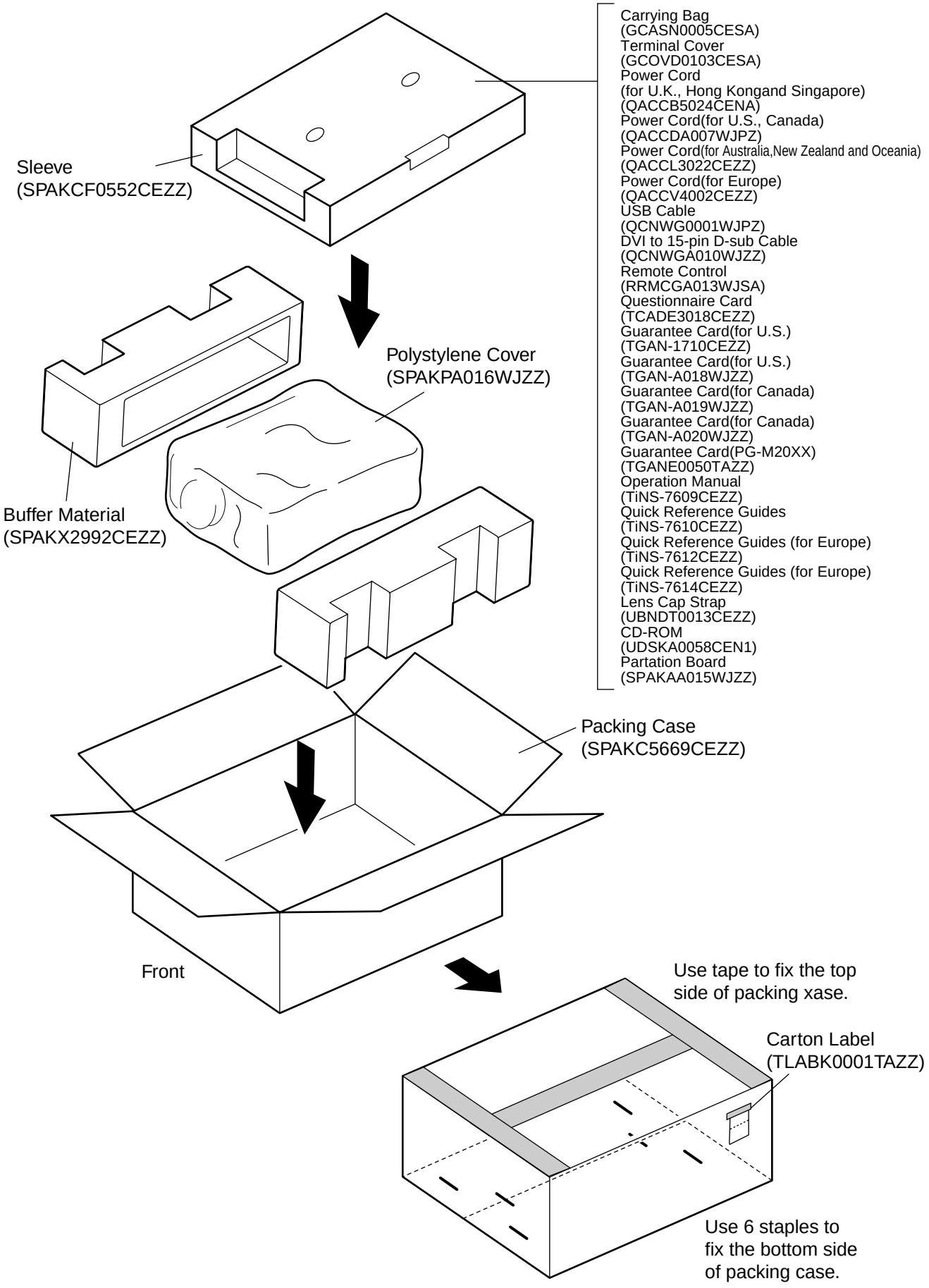
SUPPLIED ACCESSORIES

Ref. No.	Part No.	★	Description	Code
	CCAPHA001WJ01		Lens Cap	
	GCASN0005CESA	J	Carrying Bag	BC
	GCOVD0103CESA	J	Terminal Cover	
	QACCB5024CENA	J	Power Cord(for U.K., Hong Kong and Singapore)	AZ
	QACCDA007WJPZ		Power Cord(for U.S., Canada)	AR
	QACCL3022CEZZ	J	Power Cord(for Australia, New Zealand and Oceania)	AZ
	QACCV4002CEZZ	J	Power Cord(for Europe)	AZ
	QCNWG0001WJPZ		USB Cable	
	QCNWGA010WJZZ		DVI to 15-pin D-sub Cable	AU
	RRMCGA013WJSA		Remote Control	AW
	TCADE3018CEZZ	J	Questionnaire Card	
	TGAN-1710CEZZ		Guarantee Card(for U.S.)	
	TGAN-A018WJZZ		Guarantee Card(for U.S.)	
	TGAN-A019WJZZ		Guarantee Card(for Canada)	
	TGAN-A020WJZZ		Guarantee Card(for Canada)	
	TGANE0050TAZZ	J	Guarantee Card(PG-M20XX)	AE
	TiNS-7609CEZZ	J	Operation Manual	AQ
	TiNS-7610CEZZ	J	Quick Reference Guides	AG
	TiNS-7612CEZZ	J	Quick Reference Guides (for Europe)	AG
	TiNS-7614CEZZ	J	Quick Reference Guides (for Europe)	AG
	UBNDT0013CEZZ	J	Lens Cap Strap	AF
	UDSKA0058CEN1	J	CD-ROM	AM

PACKING PARTS
(NOT REPLACEMENT ITEM)

Ref. No.	Part No.	★	Description	Code
	SPAKAA015WJZZ	–	Partation Board	—
	SPAKC5669CEZZ	–	Packing Case	—
	SPAKF0552CEZZ	–	Sleeve	—
	SPAKPA016WJZZ	–	Polystylene Cover	—
	SPAKX2992CEZZ	–	Buffer Material	—
	SSAKA0170CEZZ	–	Polystylene Cover, for Accessories	—
	TLABK0001TAZZ	–	Carton Label	—

PACKING OF THE SET



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